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DATA FROM THE COMMERCIAL FISHERY FOR LAKE WHITEFISH, *Coregonus clupeaformis* (Mitchill), ON GREAT SLAVE LAKE, NORTHWEST TERRITORIES, 1990/91 to 1992/93

by

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ABSTRACT

Read, C.J. and W.E.F. Taptuna. 1995. Data from the commercial fishery for lake whitefish, *Coregonus clupeaformis* (Mitchill), on Great Slave Lake, Northwest Territories, 1990/91 to 1992/93. Can. Data Rep. Fish. Aquat. Sci. 957: v + 46 p.

Data from the fish plant sampling program on Great Slave Lake are presented. Production figures for lake whitefish and other species are shown. A total of 6 604 lake whitefish were sampled for length, weight and age.

Key words: commercial fishing; fishery management; monitoring.

RESUME

Read, C.J. and W.E.F. Taptuna. 1995. Data from the commercial fishery for lake whitefish, *Coregonus clupeaformis* (Mitchill), on Great Slave Lake, Northwest Territories, 1990/91 to 1993/94. Can. Data Rep. Fish. Aquat. Sci. 957: v + 46p.

Le rapport présente des données sur le programme d'échantillonnage à l'usine de transformation du poisson dans le Grand lac des Esclaves. On y donne les chiffres de production pour la grand corégone at d'autres espèces. Les données sur l'age, la longueur at le poids ont été recueillies à partir d'un échantillonne de 6 604 grands corégones.

Mots-clés: pêche commerciale; gestion des pêches; contrôle.

INTRODUCTION

Commercial fishing first began on Great Slave Lake in 1945. Since then the fishery has been monitored annually for total catch; however, few studies were conducted on the effects of exploitation on the stocks of the commercial species (Rawson 1951, 1953a; Keleher 1972; Kennedy 1956) until the 1970's.

In 1971, the Department of Fisheries began a long term stock assessment and monitoring program designed to collect information considered essential for the sound management of the Great Slave Lake commercial fishery. These programs are consistent with the recommendation of the Great Slave Lake Working Party (1969) outlined in Roberge et al. (1982).

In order to meet these objectives, a three-component field study was implemented including fish plant sampling, fishery observations and experimental gillnetting. Results of this work for the years 1972 to 1984 have been described by Bond (1974a, b, 1975a, b), Bond and Turnbull (1973), Moshenko et al. (1978, 1981), Moshenko and Low (1978a, b, 1979, 1980) Roberge et al. (1982, 1984), Low and Read (1987), Low et al. (1989) and Low and Read (1993).

Only the fish plant sampling component was carried out for the three years of data presented in this report.

STUDY AREA

Great Slave Lake lies in the southwest corner of the District of Mackenzie, Northwest Territories (Fig. 1). It is the fifth largest lake in North America, having a surface area of 27 195 km^2 and a drainage area of 985 300 km^2. Stretching 440 km from its extreme east end to the outlet of the Mackenzie River, the lake straddles two physiographic regions. The northeast shore of the north arm and the east arm lie within the Precambrian Shield and have irregular, precipitous margins. The western portion of the lake overlies the alluvial plain known as the Mackenzie Lowlands and has few islands and gently sloping shores. The rivers entering the lake from the shield are cold, clear and rapidly flowing while those entering from the south are slow flowing brown water streams laden with silt during spring and early summer. While the western basin has a maximum depth of approximately 165 m and a mean depth of 42 m, a depth of 625 m has been recorded in the east arm (Rawson 1950). Physical and biological characteristics of the lake have been described in detail by Rawson (1950,1951, 1953a,b).

DESCRIPTION OF THE FISHERY

Great Slave Lake has been fished commercially since 1945. During the 1950's annual production of whitefish and trout averaged 2.9 million kg as the large accumulated stock was exploited. Since the 1950's commercial production of both species has decreased annually and whitefish and trout have reacted differently to exploitation (Keleher 1972). The commercial fishery on the west end of the lake has now stabilized and is being managed primarily for whitefish production with minimal regard to lake trout, the latter being unable to withstand commercial gillnetting. Inconnu are protected by seasonal closures of inshore areas where they tend to congregate.

Gillnets have been the sole means of exploitation by the commercial fishery since its inception. The legal minimum mesh size was 139 mm stretched mesh until regulation changes in 1977 allowed the use of 133 mm mesh as the legal minimum mesh size. There has been no restriction on the number of nets a fisherman may use since 1961. Almost the entire lake has been open to commercial fishing at some point in the history of the fishery, although certain areas have been closed to protect subsistence and sport fisheries (Fig. 1 and Northwest Territories Fishery Regulations 1985). The east arm of Great Slave Lake (Area VI) was completely closed to commercial fishing in 1974 and is being managed exclusively for subsistence and sport fishing (Moshenko and Gillman 1978).

There are at least 25 fish species in the lake (Keleher 1972) of which only five are of commercial importance. The major commercial species in decreasing order of importance are: lake whitefish, *Coregonus clupeaformis* (Mitchill); lake trout, *Salvelinus namaycush* (Walbaum); inconnu, *Stenodus leucichthys nelma* (Pallas); northern pike, *Esox lucius* (Linnaeus); and walleye (pickerel), *Stizostedion vitreum vitreum* (Mitchill). Cisco, *Coregonus* spp., burbot, *Lota lota* (Linnaeus) and longnose sucker, *Catostomus catostomus* (Forster). Longnose suckers may constitute up to 40% or more of the total catch;

however, most are culled on the lake due to a soft market demand.

The commercial portion of the lake is divided into six administrative areas for management purposes and a portion of the total annual quota is allotted to each area (Table 1). The annual quota is based on the period commencing 1 November and terminating on the following 31 October and applies to the combined catch for both the winter and summer fisheries. Previous to the 1990/91 season the entire quota was based on whitefish and trout combined. Starting in the 1990/91 season the quota in administrative areas lW, lE, 2, 3, and 4 was based on whitefish only, while the area 5 quota remained combined for whitefish and trout. Other species such as inconnu are managed on an individual basis by closing waters where they are vulnerable to over exploitation. More detailed histories of the commercial fishery on Great Slave Lake are given by Kennedy (1956), Keleher (1972) and Bond and Turnbull (1973). The description of the winter and summer fisheries is summarized by Moshenko et al. (1978).

MATERIALS AND METHODS

HARVEST RECORDS AND SAMPLING PROCEDURES

Monthly summaries of the landings by species by administrative area were compiled from the Freshwater Fish Marketing Corporation (FFMC) sales slips by Department of Fisheries and Oceans (DFO) staff in Hay River. Harvest tables were taken from the Annual Summary of Fish and Marine Mammals Data for the Northwest Territories.

The following table lists the factors used to convert various species and forms to round weight:

Species	Form	Conversion Factor
Whitefish	dressed	x 1.17
Pickerel	dressed	x 1.22
	headless dressed	x 1.39
Trout	dressed	x 1.21
	headless dressed	x 1.53
Pike	dressed	x 1.22
	headless dressed	x 1.53
lnconnu	dressed	x 1.16
	headless dressed	x 1.35

Production values presented in this report (Tables 2-8) include whitefish culls at the plant but do not include an estimate of deteriorated whitefish discarded on the lake. Fishermen cull these fish as the nets are lifted but no record is made of the numbers or estimated weight. Fish which do not meet the market size and quality requirements are further culled by graders at the fish plant and the weight is recorded on the sales slip.

Commercial landings of whitefish were sampled from each of the six administrative areas fished during the sample periods. Sampling frequency was based on a schedule as follows:

Winter - December 1 to March 30
Summer-June lOto July 15
Fall - September 1 to October 15

Boxes of fish were selected at random from the catches of various harvesters as they arrived at the plant. All whitefish in the box, up to a maximum of 70 fish per individual harvester were sampled. Thus, the sample of 200 whitefish should have been taken from at least three different harvesters. An additional 10 fish were sampled to compensate for scale samples which were unsuitable for aging. The fish were measured for fork length (± 1 mm) and dressed weight (± 50 g). Scales were taken from the left side of the fish from the area just above the lateral line and below the dorsal fin. Every second sample was selected for aging.

BIOLOGICAL DATA

The scale age of whitefish was determined by counting the number of completed annuli. That is, an age 10 fish was in its eleventh year.

Data were analyzed using computer facilities (Micro Vax II) based at the Freshwater Institute Science Laboratory, Winnipeg, Manitoba. The Statistical Analysis System (version 6; Third Edition) was used to generate the length and age tables.

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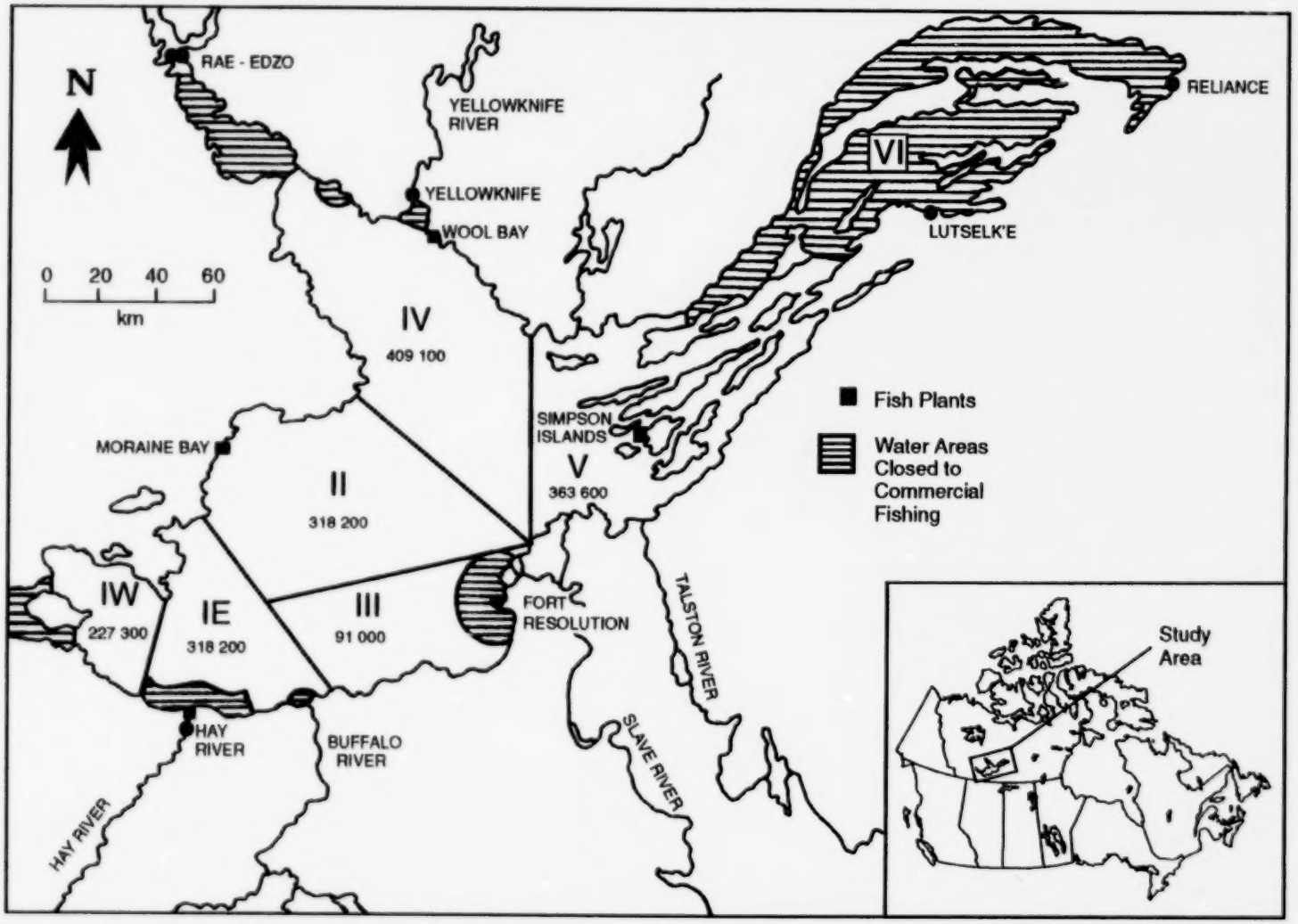

Fig. 1. Map of Great Slave Lake showing the administrative areas and quotas, areas closed to commercial fishing and the location of the fish plants. The Simpson Islands fish plant has not been in operation since 1991.

Table 1. Commercial quotas in effect on Great Slave Lake during the 1976 to 1993 seasons.

Year[1]	Commercial Quota of Whitefish and Trout[1] (kg round weight)						
	Area IW	Area IE	Area II	Area III	Area IV	Area V	Total
1975-76	227 273	318 181	681 819	Nil	622 727	325 000	2 175 000
1976-77	227 273	318 181	318 181	Nil	409 091	272 729	1 545 455
1977-78	227 273	318 181	318 181	Nil	409 091	272 729	1 545 455
1978-79	227 273	318 181	318 181	45 455	409 091	295 455	1 613 636
1979-80	227 273	318 181	318 181	45 455	409 091	363 637	1 681 818
1980-81	227 300	318 200	318 200	45 500	409 100	363 600	1 681 900
1981-82	227 300	318 200	318 200	79 500	409 100	363 600	1 715 900
1982-83	227 300	318 200	318 200	45 500	409 100	363 600	1 681 900
1983-84	227 300	318 200	318 200	45 500	409 100	363 600	1 681 900
1984-85	227 300	318 200	318 200	45 500	409 100	363 600	1 681 900
1985-86	227 300	318 200	318 200	70 000	409 100	363 600	1 706 400
1986-87	227 300	318 200	318 200	45 500	409 100	363 600	1 681 900
1987-88	227 300	318 200	318 200	45 500	409 100	363 600	1 681 900
1988-89	227 300	318 200	318 200	45 500	409 100	363 600	1 681 900
1989-90	227 300	318 200	318 200	45 500	409 100	363 600	1 681 900
1990-91[2]	227 300	318 200	318 200	91 000	409 100	363 600	1 727 400
1991-92[2]	227 300	318 200	318 200	91 000	409 100	363 600	1 727 400
1992-93[2]	227 300	318 200	318 200	91 000	409 100	363 600	1 727 400

[1] Season runs from November 1 of one year to October 31 of the next year.
[2] Quota includes whitefish only for all areas except Area V which includes whitefish and lake trout combined.

Table 2. Total production of commercial species (kg round weight) by administrative area, November 1, 1990 to October 31, 1991.

	Production From Each Administration Area						
Species1	Area IW	Area IE	Area II	Area III	Area IV	Area V	Total
Whitefish	225 592	282 277	299 425	51 242	392 177	201 670	1 452 383
Trout	6 682	11 534	16 949	181	7 756	43 422	86 524
Pike	44 262	33 202	15 110	3 156	38 610	52 739	187 079
Inconnu	3 333	10 722	732	3 133	2 355	33 651	53 926
Burbot	3 254	12 898	932	4 427	1 971	10 933	34 415
Sucker	465	5 780	0	743	0	0	6 988
Walleye	37	1 152	954	948	3 961	5 227	12 279
Total	283 625	357 565	334 102	63 830	446 830	347 642	1 833 594

Table 3. Total production of commercial species (kg round weight) by administrative area, November 1, 1991 to October 31, 1992.

	Production From Each Administration Area						
Species1	Area IW	Area IE	Area II	Area III	Area IV	Area V	Total
Whitefish	225 908	199 232	303 869	22 962	326 779	136 480	1 215 230
Trout	5 502	12 482	8 876	323	5 320	15 664	48 167
Pike	63 350	22 317	13 149	931	31 752	30 703	162 202
Inconnu	3 602	11 140	841	315	2 179	8 711	26 788
Walleye	56	618	156	198	3 074	48	4 150
Burbot	1 046	11 632	14 604	836	11 279	2 486	41
Sucker	336	261	25	6	1 508	0	2 136
Total	299 800	257 682	341 520	25 571	381 891	194 092	1 500 556

Table 4. Total production of commercial species (kg round weight) by administrative area, November 1, 1992 to October 31, 1993.

	Production From Each Administration Area						
Species1	Area IW	Area IE	Area II	Area III	Area IV	Area V	Total
Whitefish	229 460	174 332	233 367	46 825	389 931	127 967	1 201 882
Trout	4 682	8 797	10 780	597	3 838	32 869	61 563
Pike	42 649	5 873	10 126	1 085	34 649	48 937	143 319
Inconnu	2 855	5 099	1 121	3 785	2 645	27 529	43 034
Walleye	73	1 484	100	459	2 444	579	5 139
Burbot	4 250	6 596	4 330	1 406	2	0	16 584
Sucker	0	0	0	0	0	0	0
Total	283 969	202 181	259 824	54 157	433 509	237 881	1 471 521

Table 5. Production of whitefish and trout (kg round weight) from each administrative area for winter 1990/91 and summer, 1991.

Administrative Area	Winter		Summer		Total		
	Whitefish	Trout	Whitefish	Trout	Whitefish	Trout	Total
IW	194 244	3 884	31 348	2 798	225 592	6 682	232 274
IE	105 650	1 144	176 627	10 390	282 277	11 534	293 811
II	80 438	399	218 987	16 550	299 425	16 949	316 374
III	23 407	112	27 835	69	51 242	181	51 423
IV	103 663	1 153	288 514	6 603	392 177	7 756	399 933
V	81 615	5 113	120 055	38 309	201 670	43 422	245 092
Total	589 017	11 805	863 366	74 719	1 452 383	86 524	1 538 907

Table 6. Production of whitefish and trout (kg round weight) from each administrative area for winter 1991/92 and summer, 1992.

Administrative Area	Winter		Summer		Total		
	Whitefish	Trout	Whitefish	Trout	Whitefish	Trout	Total
IW	225 908	5 502	0	0	225 908	5 502	231 410
IE	89 716	2 749	109 516	9 733	199 232	12 482	211 714
II	93 122	1 989	210 747	6 887	303 869	8 876	312 745
III	17 217	297	5 745	26	22 962	323	23 285
IV	43 893	221	282 886	5 099	326 779	5 320	332 099
V	36 142	103	100 338	15 561	136 480	15 664	152 144
Total	505 998	10 861	709 232	37 306	1 215 230	48 167	1 263 397

Table 7. Production of whitefish and trout (kg round weight) from each administrative area for winter 1992/93 and summer, 1993.

Administrative Area	Winter		Summer		Total		
	Whitefish	Trout	Whitefish	Trout	Whitefish	Trout	Total
IW	229 460	4 682	0	0	229 460	4 682	234 142
IE	53 828	918	120 504	7 879	174 332	8 797	183 129
II	51 754	1 505	181 613	9 275	233 367	10 780	244 147
III	9 619	484	37 206	113	46 825	597	47 422
IV	165 006	240	224 925	3 598	389 931	3 838	393 769
V	0	0	127 967	32 869	127 967	32 869	160 836
Total	509 667	7 829	692 215	53 734	1 201 882	61 563	1 263 445

Table 8. Annual production (x 1000 kg, round weight) of commercial species, Great Slave Lake, 1973-1993.

Year[1]	Whitefish	Trout	Pike	Inconnu	Walleye	Total Whitefish & Trout	Total All Species
1972-73	1 004	92	155	103	17	1 096	1 371
1973-74	973	111	-	-	-	1 084	1 084
1974-75	921	99	96	95	10	1 020	1 221
1975-76	975	83	103	77	9	1 058	1 247
1976-77	1 172	108	118	86	11	1 280	1 495
1977-78	1 107	105	157	153	13	1 212	1 535
1978-79	1 065	121	129	153	6	1 186	1 474
1979-80	1 178	122	199	65	19	1 300	1 583
1980-81	1 097	85	151	43	4	1 182	1 380
1981-82	1 139	75	166	23	8	1 214	1 411
1982-83	899	61	115	16	5	960	1 096
1983-84	863	50	108	47	15	913	1 083
1984-85	876	110	155	72	13	986	1 226
1985-86	1 219	107	130	62	12	1 326	1 530
1986-87	1 310	127	140	74	14	1 437	1 665
1987-88	1 438	65	113	74	20	1 503	1 710
1988-89	1 451	137	170	84	20	1 588	1 863
1989-90	1 317	87	204	69	34	1 404	1 711
1990-91	1 452	87	187	54	12	1 539	1 792
1991-92	1 215	48	162	27	4	1 263	1 456
1992-93	1 202	62	143	43	5	1 264	1 455

[1] Season runs from November 1 of one year to October 31 of the next year.

Table 9. Weight composition by market weight intervals for lake whitefish from commercial plant samples, Great Slave Lake, 1990\91.

MARKET WEIGHT INTERVAL (DRESSED)	AREA IE		AREA IW		AREA II		AREA III		AREA IV		AREA V		TOTAL	
	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%
NO MARKET (< 0.45 kg)	3	-	-	-	1	-	-	-	-	-	-	-	4	-
SMALL (0.45-0.69 kg)	34	8	12	3	54	13	21	10	41	7	19	5	181	7
MEDIUM (0.70-1.39 kg)	364	88	303	72	340	81	171	85	576	92	395	94	2149	86
LARGE (1.40-1.80 kg)	13	3	87	21	20	5	9	4	11	2	5	1	145	6
JUMBO (> 1.80 kg)	2	-	17	4	3	-	-	-	1	-	-	-	23	-
TOTAL	416		419		418		201		629		419		2502	

Table 10. Age composition of whitefish for all areas combined from Great Slave Lake commercial fishery, 1990\91.

AGE (yr)	NO.	%	FORK LENGTH(mm) MEAN	FORK LENGTH(mm) SD.	DRESSED WEIGHT (g) MEAN	DRESSED WEIGHT (g) SD.
5	4	0.3	366	6.6	629	98.1
6	19	1.4	383	19.2	747	143.9
7	73	5.5	396	21.9	831	135.8
8	100	7.6	399	25.6	823	160.4
9	137	10.4	409	28.3	885	196.5
10	261	19.7	414	26.1	893	180.6
11	333	25.2	417	26.4	922	194.8
12	221	16.7	425	32.6	988	239.7
13	105	7.9	431	33.2	1034	256.5
14	42	3.2	455	40.8	1174	341.9
15	15	1.1	492	48.1	1433	462.9
16	9	0.7	471	36.5	1349	308.0
17	2	0.2	503	0.7	1640	49.5
19	2	0.2	540	79.9	2073	612.4
TOTAL	1323					
MEAN			418	33.1	936	239.6
MEAN AGE	10.6					

Table 11. Age composition of commercial whitefish for each seasonal period from area IW, 1990\91.

AGE (yr)	WINTER NO.	WINTER MEAN FORK LEN. (mm)	WINTER MEAN DR. WT. (g)	SPRING NO.	SPRING MEAN FORK LEN. (mm)	SPRING MEAN DR. WT. (g)	FALL NO.	FALL MEAN FORK LEN. (mm)	FALL MEAN DR. WT. (g)	TOTAL NO.	TOTAL FORK LENGTH(mm) MEAN	TOTAL FORK LENGTH(mm) SD.	TOTAL DRESSED WEIGHT(g) MEAN	TOTAL DRESSED WEIGHT(g) SD.
6	1	373	670	-	-	-	-	-	-	1	373	-	670	-
7	18	396	811	2	401	883	-	-	-	20	396	20.4	818	129.0
8	16	408	889	20	415	950	-	-	-	36	412	22.2	923	147.6
9	13	411	943	15	439	1159	-	-	-	28	426	29.3	1059	249.3
10	34	405	842	15	445	1180	-	-	-	49	417	32.2	946	240.3
11	21	435	1081	17	450	1243	-	-	-	38	442	27.3	1153	239.7
12	7	447	1144	13	476	1462	-	-	-	20	466	37.7	1351	317.1
13	-	-	-	12	487	1538	-	-	-	12	487	28.8	1538	251.6
14	-	-	-	4	520	1628	-	-	-	4	520	16.0	1628	112.0
15	-	-	-	8	531	1788	-	-	-	8	531	26.0	1788	290.0
16	1	493	1535	3	510	1648	-	-	-	4	506	17.7	1620	64.5
17	-	-	-	1	502	1675	-	-	-	1	502	-	1675	-
19	1	483	1640	-	-	-	-	-	-	1	483	-	1640	-
TOTAL	112			110			-			222				
MEAN		414	931		458	1290		-	-		436	43.6	1109	338.2
MEAN AGE	9.5			10.9			-			10.2				

Table 12. Age composition of commercial whitefish for each seasonal period from area IE, 1990\91.

AGE (yr)	WINTER NO.	WINTER MEAN FORK LEN. (mm)	WINTER MEAN DR. WT. (g)	SPRING NO.	SPRING MEAN FORK LEN. (mm)	SPRING MEAN DR. WT. (g)	FALL NO.	FALL MEAN FORK LEN. (mm)	FALL MEAN DR. WT. (g)	TOTAL NO.	TOTAL FORK LENGTH(mm) MEAN	TOTAL FORK LENGTH(mm) SD.	TOTAL DRESSED WEIGHT(g) MEAN	TOTAL DRESSED WEIGHT(g) SD.
8	4	364	626	1	378	640	-	-	-	5	367	9.1	629	48.4
9	18	398	844	16	380	718	-	-	-	34	390	23.7	785	153.2
10	29	412	935	21	404	816	-	-	-	50	409	20.9	885	151.0
11	37	414	947	46	410	866	-	-	-	83	412	19.2	902	155.7
12	18	434	1113	17	424	978	-	-	-	35	429	25.1	1047	215.3
13	3	430	1067	7	442	1048	-	-	-	10	438	14.2	1054	126.4
14	1	543	2450	2	464	1275	-	-	-	3	490	50.7	1667	689.8
TOTAL	110			110			-			220				
MEAN		414	960		410	869		-	-		412	27.2	914	214.8
MEAN AGE	10.5			10.8			-			10.7				

Table 13. Age composition of commercial whitefish for each seasonal period from area 11, 1990\91.

AGE (yr)	WINTER NO.	WINTER MEAN FORK LEN. (mm)	WINTER MEAN DR. WT. (g)	SPRING NO.	SPRING MEAN FORK LEN. (mm)	SPRING MEAN DR. WT. (g)	FALL NO.	FALL MEAN FORK LEN. (mm)	FALL MEAN DR. WT. (g)	TOTAL NO.	TOTAL FORK LENGTH(mm) MEAN	TOTAL FORK LENGTH(mm) SD.	TOTAL DRESSED WEIGHT(g) MEAN	TOTAL DRESSED WEIGHT(g) SD.
5	3	363	583	-	-	-	-	-	-	3	363	5.2	583	45.4
6	14	387	789	-	-	-	-	-	-	14	387	19.5	789	133.5
7	40	396	851	1	333	475	-	-	-	41	394	23.9	841	147.7
8	16	402	849	13	373	663	-	-	-	29	389	27.1	765	156.6
9	15	419	941	9	397	803	-	-	-	24	411	24.2	889	168.8
10	9	436	1038	24	406	810	-	-	-	33	414	34.3	872	203.5
11	5	442	1022	32	412	894	-	-	-	37	416	30.3	912	182.7
12	6	472	1279	20	421	927	-	-	-	26	433	32.1	1008	223.3
13	2	462	1230	8	429	1018	-	-	-	10	436	30.3	1060	241.3
14	-	-	-	2	481	1390	-	-	-	2	481	7.8	1390	49.5
17	-	-	-	1	503	1605	-	-	-	1	503	-	1605	-
19	-	-	-	1	596	2506	-	-	-	1	596	-	2506	-
TOTAL	110			111			-			221				
MEAN		408	901		411	882		-	-		410	35.6	892	233.8
MEAN AGE	8.0			10.7			-			9.4				

Table 14. Age composition of commercial whitefish for each seasonal period from area III, 1990\91.

AGE (yr)	WINTER NO.	WINTER MEAN FORK LEN. (mm)	WINTER MEAN DR. WT. (g)	SPRING NO.	SPRING MEAN FORK LEN. (mm)	SPRING MEAN DR. WT. (g)	FALL NO.	FALL MEAN FORK LEN. (mm)	FALL MEAN DR. WT. (g)	TOTAL NO.	TOTAL FORK LENGTH(mm) MEAN	TOTAL FORK LENGTH(mm) SD.	TOTAL DRESSED WEIGHT(g) MEAN	TOTAL DRESSED WEIGHT(g) SD.
6	-	-	-	1	350	460	-	-	-	1	350	-	460	-
7	-	-	-	1	389	655	-	-	-	1	389	-	655	-
8	-	-	-	4	375	650	-	-	-	4	375	15.9	650	155.2
9	-	-	-	5	405	835	-	-	-	5	405	25.1	835	167.1
10	-	-	-	32	414	947	-	-	-	32	414	19.5	947	186.1
11	-	-	-	36	418	968	-	-	-	36	418	21.4	968	220.2
12	-	-	-	17	428	1033	-	-	-	17	428	17.4	1033	173.7
13	-	-	-	3	424	897	-	-	-	3	424	8.5	897	170.0
14	-	-	-	3	456	1157	-	-	-	3	456	28.4	1157	294.1
15	-	-	-	2	446	890	-	-	-	2	446	23.3	890	190.9
TOTAL	-			104			-			104				
MEAN		-	-		417	948		-	-		417	24.2	948	214.3
MEAN AGE	-			10.8			-			10.8				

Table 15. Age composition of commercial whitefish for each seasonal period from area IV, 1990\91.

AGE (yr)	WINTER NO.	WINTER MEAN FORK LEN. (mm)	WINTER MEAN DR. WT. (g)	SPRING NO.	SPRING MEAN FORK LEN. (mm)	SPRING MEAN DR. WT. (g)	FALL NO.	FALL MEAN FORK LEN. (mm)	FALL MEAN DR. WT. (g)	TOTAL NO.	TOTAL FORK LENGTH(mm) MEAN	TOTAL FORK LENGTH(mm) SD.	TOTAL DRESSED WEIGHT(g) MEAN	TOTAL DRESSED WEIGHT(g) SD.
7	2	429	915	-	-	-	-	-	-	2	429	14.8	915	28.3
8	8	412	816	-	-	-	-	-	-	8	412	17.8	816	87.5
9	19	418	863	-	-	-	2	403	815	21	416	33.8	859	154.2
10	28	436	956	5	393	785	19	402	776	52	420	28.8	874	169.2
11	27	439	1000	22	393	824	50	403	793	99	410	28.3	857	158.2
12	15	455	1095	33	396	829	29	408	846	77	412	33.0	887	178.5
13	8	448	1147	36	408	911	8	427	949	52	417	24.3	953	153.5
14	5	472	1266	10	426	1020	2	420	998	17	439	39.4	1090	270.6
15	-	-	-	-	-	-	1	460	1075	1	460	-	1075	-
16	-	-	-	4	442	1150	-	-	-	4	442	19.3	1150	266.9
TOTAL	112			110			111			333				
MEAN		437	986		404	882		407	822		416	30.3	897	180.5
MEAN AGE	10.5			12.4			11.3			11.4				

Table 16. Age composition of commercial whitefish for each seasonal period from area V, 1990\91.

AGE (yr)	WINTER NO.	WINTER MEAN FORK LEN. (mm)	WINTER MEAN DR. WT. (g)	SPRING NO.	SPRING MEAN FORK LEN. (mm)	SPRING MEAN DR. WT. (g)	FALL NO.	FALL MEAN FORK LEN. (mm)	FALL MEAN DR. WT. (g)	TOTAL NO.	TOTAL FORK LENGTH(mm) MEAN	TOTAL FORK LENGTH(mm) SD.	TOTAL DRESSED WEIGHT(g) MEAN	TOTAL DRESSED WEIGHT(g) SD.
5	1	373	765	-	-	-	-	-	-	1	373	-	765	-
6	3	381	675	-	-	-	-	-	-	3	381	12.5	675	80.5
7	5	401	828	-	-	-	4	400	786	9	401	10.8	809	101.0
8	14	398	803	-	-	-	4	405	833	18	399	18.5	809	108.0
9	21	409	865	-	-	-	4	408	796	25	409	16.3	854	114.3
10	30	411	852	-	-	-	15	414	831	45	412	15.3	845	90.5
11	17	410	850	-	-	-	23	423	897	40	417	19.9	877	110.7
12	14	425	968	-	-	-	32	421	904	46	422	23.3	923	165.9
13	2	412	923	-	-	-	16	427	933	18	426	30.5	932	183.9
14	3	432	970	-	-	-	10	447	1012	13	444	25.9	1002	160.0
15	1	458	1130	-	-	-	3	440	1068	4	445	16.9	1084	230.7
16	-	-	-	-	-	-	1	450	1065	1	450	-	1065	-
TOTAL	111			-			112			223				
MEAN		410	863		-	-		423	902		416	23.3	882	143.9
MEAN AGE	9.9			-			11.5			10.7				

Table 17. Length composition of whitefish for all areas combined from Great Slave Lake commercial fishery, 1990\91.

LENGTH INTERVAL (mm)	NO.	%	FORK LENGTH(mm) MEAN	FORK LENGTH(mm) SD.	DRESSED WEIGHT (g) MEAN	DRESSED WEIGHT (g) SD.
310-319	2	-	317	0.0	450	21.2
320-329	2	-	329	0.0	593	187.4
330-339	6	0.2	334	2.5	463	39.0
340-349	11	0.4	346	2.6	531	46.2
350-359	28	1.1	354	3.0	572	63.4
360-369	46	1.8	364	2.6	639	58.9
370-379	113	4.5	375	2.9	686	57.7
380-389	204	8.2	385	2.8	743	61.4
390-399	289	11.6	395	2.8	785	65.3
400-409	404	16.1	404	2.8	847	74.9
410-419	345	13.8	414	2.8	889	84.6
420-429	318	12.7	424	2.9	953	90.6
430-439	200	8.0	433	2.7	1008	101.4
440-449	147	5.9	444	2.8	1091	122.8
450-459	104	4.2	454	2.9	1161	143.4
460-469	80	3.2	464	3.0	1221	137.6
470-479	49	2.0	474	2.7	1302	147.0
480-489	50	2.0	484	2.7	1413	174.6
490-499	25	1.0	493	2.6	1543	154.8
500-509	24	1.0	504	3.0	1560	183.3
510-519	21	0.8	514	2.6	1680	191.4
520-529	14	0.6	523	3.1	1745	151.9
530-539	11	0.4	534	2.2	1809	167.5
540-549	3	0.1	542	1.5	2128	333.0
550-559	3	0.1	552	2.5	2102	79.7
560-569	1	-	568	-	2290	-
570-579	1	-	573	-	2170	-
590-599	1	-	596	-	2506	-
TOTAL	2502					
MEAN			418	34.1	941	250.0

Table 18. Length composition of commercial whitefish for each seasonal period from area IW, 1990\91.

LENGTH INTERVAL (mm)	WINTER NO.	WINTER MEAN FORK LEN. (mm)	WINTER MEAN DR. WT. (g)	SPRING NO.	SPRING MEAN FORK LEN. (mm)	SPRING MEAN DR. WT. (g)	FALL NO.	FALL MEAN FORK LEN. (mm)	FALL MEAN DR. WT. (g)	TOTAL NO.	TOTAL FORK LENGTH(mm) MEAN	TOTAL FORK LENGTH(mm) SD.	TOTAL DRESSED WEIGHT(g) MEAN	TOTAL DRESSED WEIGHT(g) SD.
340-349	1	348	540	-	-	-	-	-	-	1	348	-	540	-
360-369	4	367	624	-	-	-	-	-	-	4	367	3.2	624	36.8
370-379	9	374	688	-	-	-	-	-	-	9	374	3.1	688	66.5
380-389	17	385	748	3	384	782	-	-	-	20	385	3.1	753	51.1
390-399	19	394	802	4	393	838	-	-	-	23	394	2.4	808	59.3
400-409	36	404	845	20	405	909	-	-	-	56	404	2.7	868	72.1
410-419	35	414	922	15	414	928	-	-	-	50	414	3.0	924	64.6
420-429	30	424	978	17	423	1001	-	-	-	47	424	3.3	986	71.6
430-439	15	434	1026	11	434	1084	-	-	-	26	434	3.0	1051	79.3
440-449	14	443	1115	19	443	1150	-	-	-	33	443	2.3	1135	93.1
450-459	8	456	1184	17	453	1264	-	-	-	25	454	3.0	1238	89.4
460-469	4	464	1218	14	465	1340	-	-	-	18	465	3.3	1313	114.3
470-479	4	475	1431	11	474	1404	-	-	-	15	474	2.8	1411	131.3
480-489	6	484	1520	15	483	1534	-	-	-	21	483	2.8	1530	131.5
490-499	3	493	1560	10	494	1568	-	-	-	13	493	2.8	1566	132.2
500-509	2	506	1553	16	504	1616	-	-	-	18	504	3.1	1609	169.6
510-519	1	518	1635	12	513	1751	-	-	-	13	514	2.6	1742	162.6
520-529	2	526	1830	10	522	1774	-	-	-	12	522	3.1	1783	125.3
530-539	-	-	-	9	534	1803	-	-	-	9	534	2.4	1803	182.7
540-549	-	-	-	2	541	1968	-	-	-	2	541	1.4	1968	258.1
550-559	-	-	-	2	554	2148	-	-	-	2	554	2.1	2148	10.6
560-569	-	-	-	1	568	2290	-	-	-	1	568	-	2290	-
570-579	-	-	-	1	573	2170	-	-	-	1	573	-	2170	-
TOTAL	210			209			-			419				
MEAN		419	964		462	1323		-	-		441	43.6	1143	350.2

Table 19. Length composition of commercial whitefish for each seasonal period from area 1E, 1990\91.

LENGTH INTERVAL (mm)	WINTER NO.	WINTER MEAN FORK LEN. (mm)	WINTER MEAN DR. WT. (g)	SPRING NO.	SPRING MEAN FORK LEN. (mm)	SPRING MEAN DR. WT. (g)	FALL NO.	FALL MEAN FORK LEN. (mm)	FALL MEAN DR. WT. (g)	TOTAL NO.	TOTAL FORK LENGTH(mm) MEAN	TOTAL FORK LENGTH(mm) SD.	TOTAL DRESSED WEIGHT(g) MEAN	TOTAL DRESSED WEIGHT(g) SD.
310-319	-	-	-	2	317	450	-	-	-	2	317	0.0	450	21.2
330-339	-	-	-	3	336	468	-	-	-	3	336	2.5	468	45.1
340-349	1	347	545	3	343	528	-	-	-	4	344	3.1	533	66.0
350-359	2	356	573	1	358	620	-	-	-	3	356	1.5	588	32.5
360-369	3	363	625	4	363	629	-	-	-	7	363	3.8	627	52.4
370-379	13	373	690	15	375	670	-	-	-	28	374	2.7	680	69.1
380-389	10	384	770	21	384	740	-	-	-	31	384	2.4	750	60.1
390-399	28	394	806	30	394	780	-	-	-	58	394	3.0	793	66.1
400-409	28	403	898	40	404	823	-	-	-	68	404	2.6	854	77.8
410-419	28	413	928	33	414	875	-	-	-	61	414	2.8	899	77.2
420-429	33	424	1026	19	424	958	-	-	-	52	424	2.5	1001	98.1
430-439	27	434	1065	14	434	999	-	-	-	41	434	2.8	1042	98.7
440-449	16	443	1192	13	444	1070	-	-	-	29	443	2.8	1137	125.2
450-459	8	454	1233	5	454	1167	-	-	-	13	454	3.1	1208	168.6
460-469	5	465	1343	3	464	1277	-	-	-	8	464	2.7	1318	111.4
470-479	2	473	1458	1	473	1440	-	-	-	3	473	3.0	1452	43.7
480-489	1	482	1550	1	485	1400	-	-	-	2	484	2.1	1475	106.1
490-499	2	495	1783	-	-	-	-	-	-	2	495	4.2	1783	258.1
540-549	1	543	2450	-	-	-	-	-	-	1	543	-	2450	-
TOTAL	208			208			-			416				
MEAN		416	975		406	848		-	-		411	27.9	911	216.3

Table 20. Length composition of commercial whitefish for each seasonal period from area II, 1990\91.

LENGTH INTERVAL (mm)	WINTER NO.	WINTER MEAN FORK LEN. (mm)	WINTER MEAN DR. WT. (g)	SPRING NO.	SPRING MEAN FORK LEN. (mm)	SPRING MEAN DR. WT. (g)	FALL NO.	FALL MEAN FORK LEN. (mm)	FALL MEAN DR. WT. (g)	TOTAL NO.	TOTAL FORK LENGTH(mm) MEAN	TOTAL FORK LENGTH(mm) SD.	TOTAL DRESSED WEIGHT(g) MEAN	TOTAL DRESSED WEIGHT(g) SD.
320-329	-	-	-	2	329	593	-	-	-	2	329	0.0	593	187.4
330-339	2	333	448	1	333	475	-	-	-	3	333	2.0	457	40.7
340-349	2	348	573	2	347	498	-	-	-	4	347	1.8	535	46.0
350-359	6	356	599	6	354	558	-	-	-	12	355	3.2	578	62.1
360-369	12	365	674	8	363	631	-	-	-	20	364	2.2	657	51.1
370-379	19	375	700	16	375	691	-	-	-	35	375	2.7	696	47.0
380-389	24	385	784	21	384	731	-	-	-	45	385	3.1	759	62.3
390-399	19	397	827	25	395	781	-	-	-	44	396	2.7	800	61.0
400-409	34	404	884	28	404	855	-	-	-	62	404	3.1	871	60.0
410-419	32	414	917	24	416	862	-	-	-	56	414	3.0	893	86.4
420-429	13	423	996	27	424	931	-	-	-	40	424	2.9	952	83.6
430-439	13	433	1067	13	434	990	-	-	-	26	434	2.9	1028	89.4
440-449	9	443	1098	5	445	1003	-	-	-	14	444	3.6	1064	109.0
450-459	4	456	1139	6	453	1135	-	-	-	10	454	2.8	1137	103.8
460-469	5	463	1229	7	466	1237	-	-	-	12	465	3.2	1234	145.8
470-479	4	473	1269	7	473	1319	-	-	-	11	473	3.0	1300	118.1
480-489	2	482	1548	7	485	1409	-	-	-	9	484	2.9	1440	168.9
490-499	4	492	1526	-	-	-	-	-	-	4	492	2.1	1526	149.1
500-509	1	505	1360	2	503	1575	-	-	-	3	503	1.5	1503	127.7
510-519	2	513	1478	1	515	1985	-	-	-	3	514	1.5	1647	298.6
520-529	1	525	1460	-	-	-	-	-	-	1	525	-	1460	-
530-539	-	-	-	1	534	1910	-	-	-	1	534	-	1910	-
590-599	-	-	-	1	596	2506	-	-	-	1	596	-	2506	-
TOTAL	208			210			-			418				
MEAN		408	906		412	899		-	-		410	36.3	902	243.8

Table 21. Length composition of commercial whitefish for each seasonal period from area III, 1990\91.

LENGTH INTERVAL (mm)	WINTER NO.	WINTER MEAN FORK LEN. (mm)	WINTER MEAN DR. WT. (g)	SPRING NO.	SPRING MEAN FORK LEN. (mm)	SPRING MEAN DR. WT. (g)	FALL NO.	FALL MEAN FORK LEN. (mm)	FALL MEAN DR. WT. (g)	TOTAL NO.	TOTAL FORK LENGTH(mm) MEAN	TOTAL FORK LENGTH(mm) SD.	TOTAL DRESSED WEIGHT(g) MEAN	TOTAL DRESSED WEIGHT(g) SD.
350-359	-	-	-	6	353	547	-	-	-	6	353	2.8	547	93.1
360-369	-	-	-	2	364	515	-	-	-	2	364	2.1	515	49.5
370-379	-	-	-	4	376	619	-	-	-	4	376	3.2	619	94.8
380-389	-	-	-	15	384	730	-	-	-	15	384	2.8	730	110.6
390-399	-	-	-	18	395	800	-	-	-	18	395	3.1	800	101.5
400-409	-	-	-	29	404	863	-	-	-	29	404	2.6	863	83.8
410-419	-	-	-	26	413	924	-	-	-	26	413	2.0	924	143.4
420-429	-	-	-	38	424	985	-	-	-	38	424	3.0	985	104.0
430-439	-	-	-	24	433	1034	-	-	-	24	433	2.0	1034	141.9
440-449	-	-	-	16	443	1144	-	-	-	16	443	2.3	1144	101.4
450-459	-	-	-	13	454	1251	-	-	-	13	454	3.1	1251	197.7
460-469	-	-	-	8	461	1198	-	-	-	8	461	2.4	1198	181.2
470-479	-	-	-	1	470	1405	-	-	-	1	470	-	1405	-
480-489	-	-	-	1	488	1475	-	-	-	1	488	-	1475	-
TOTAL	-			201			-			201				
MEAN		-	-		417	948		-	-		417	25.3	948	211.9

Table 22. Length composition of commercial whitefish for each seasonal period from area IV, 1990\91.

LENGTH INTERVAL (mm)	WINTER NO.	WINTER MEAN FORK LEN. (mm)	WINTER MEAN DR. WT. (g)	SPRING NO.	SPRING MEAN FORK LEN. (mm)	SPRING MEAN DR. WT. (g)	FALL NO.	FALL MEAN FORK LEN. (mm)	FALL MEAN DR. WT. (g)	TOTAL NO.	TOTAL FORK LENGTH(mm) MEAN	TOTAL FORK LENGTH(mm) SD.	TOTAL DRESSED WEIGHT(g) MEAN	TOTAL DRESSED WEIGHT(g) SD.
340-349	1	348	490	1	344	540	-	-	-	2	346	2.8	515	35.4
350-359	1	358	605	2	354	550	2	352	543	5	354	3.2	558	48.7
360-369	-	-	-	8	363	649	1	363	585	9	363	1.8	642	54.0
370-379	2	375	703	17	375	704	7	375	664	26	375	3.0	693	43.1
380-389	9	383	745	25	385	763	30	384	707	64	385	3.0	735	53.8
390-399	11	393	803	41	395	810	42	395	751	94	395	2.7	783	58.4
400-409	14	403	803	43	405	880	49	403	805	106	404	2.8	835	70.8
410-419	20	415	840	33	415	926	25	414	851	78	415	2.9	880	74.1
420-429	21	423	869	24	425	993	27	422	896	72	424	2.9	921	80.3
430-439	30	433	954	8	434	1004	6	433	966	44	433	2.9	965	71.4
440-449	22	445	1006	6	444	1166	6	442	1039	34	444	2.9	1040	130.2
450-459	17	454	1052	-	-	-	9	453	1099	26	454	2.9	1069	90.8
460-469	22	465	1149	2	466	1325	2	464	1175	26	465	2.9	1165	107.3
470-479	12	474	1196	-	-	-	2	474	1140	14	474	2.5	1188	99.6
480-489	14	483	1228	-	-	-	1	482	1300	15	483	2.6	1232	83.1
490-499	4	493	1421	-	-	-	-	-	-	4	493	2.2	1421	85.9
500-509	3	503	1322	-	-	-	-	-	-	3	503	4.4	1322	117.3
510-519	5	516	1538	-	-	-	-	-	-	5	516	2.5	1538	144.0
530-539	1	535	1755	-	-	-	-	-	-	1	535	-	1755	-
550-559	1	550	2010	-	-	-	-	-	-	1	550	-	2010	-
TOTAL	210			210			209			629				
MEAN		440	1004		402	862		407	822		416	31.2	896	185.5

Table 23. Length composition of commercial whitefish for each seasonal period from area V, 1990\91.

LENGTH INTERVAL (mm)	WINTER NO.	WINTER MEAN FORK LEN. (mm)	WINTER MEAN DR. WT. (g)	SPRING NO.	SPRING MEAN FORK LEN. (mm)	SPRING MEAN DR. WT. (g)	FALL NO.	FALL MEAN FORK LEN. (mm)	FALL MEAN DR. WT. (g)	TOTAL NO.	TOTAL FORK LENGTH(mm) MEAN	TOTAL FORK LENGTH(mm) SD.	TOTAL DRESSED WEIGHT(g) MEAN	TOTAL DRESSED WEIGHT(g) SD.
350-359	1	358	640	-	-	-	1	350	590	2	354	5.7	615	35.4
360-369	3	366	653	-	-	-	1	368	600	4	366	1.7	640	83.6
370-379	8	374	688	-	-	-	3	376	633	11	375	3.0	673	58.4
380-389	22	385	731	-	-	-	7	385	725	29	385	2.5	730	44.2
390-399	25	395	770	-	-	-	27	394	739	52	394	2.8	754	57.4
400-409	46	404	842	-	-	-	37	404	793	83	404	2.8	820	76.7
410-419	39	414	874	-	-	-	35	414	831	74	414	2.7	854	69.3
420-429	35	424	934	-	-	-	34	423	889	69	424	2.9	912	70.3
430-439	15	433	968	-	-	-	24	434	960	39	434	2.6	963	93.2
440-449	6	445	1083	-	-	-	15	443	991	21	444	3.3	1017	107.8
450-459	5	455	1178	-	-	-	12	453	1068	17	454	3.0	1101	122.9
460-469	1	466	1095	-	-	-	7	463	1108	8	464	2.6	1106	44.9
470-479	1	470	1255	-	-	-	4	473	1170	5	472	1.8	1187	67.3
480-489	-	-	-	-	-	-	2	484	1330	2	484	2.1	1330	70.7
490-499	1	490	1475	-	-	-	1	494	1390	2	492	2.8	1433	60.1
520-529	1	527	1575	-	-	-	-	-	-	1	527	-	1575	-
TOTAL	209			-			210			419				
MEAN		410	867		-	-		419	876		415	23.4	872	145.7

Table 24. Weight composition by market weight intervals for lake whitefish from commercial plant samples, Great Slave Lake, 1991/92.

MARKET WEIGHT INTERVAL (DRESSED)	AREA IE		AREA IW		AREA II		AREA III		AREA IV		AREA V		TOTAL	
	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%
NO MARKET (< 0.45 kg)	-	-	2	-	2	-	-	-	-	-	-	-	4	-
SMALL (0.45-0.69 kg)	39	9	44	21	41	10	8	4	38	9	31	15	201	11
MEDIUM (0.70-1.39 kg)	370	88	162	77	363	87	185	88	362	87	179	85	1621	86
LARGE (1.40-1.80 kg)	11	3	2	-	10	2	15	7	16	4	-	-	54	3
JUMBO (> 1.80 kg)	-	-	-	-	3	-	2	-	2	-	-	-	7	-
TOTAL	420		210		419		210		418		210		1887	

Table 25. Age composition of whitefish for all areas combined from Great Slave Lake commercial fishery, 1991/92.

AGE (yr)	NO.	%	FORK LENGTH(mm) MEAN	FORK LENGTH(mm) SD.	DRESSED WEIGHT (g) MEAN	DRESSED WEIGHT (g) SD.
6	6	0.6	381	26.3	719	166.7
7	18	1.9	383	29.3	721	165.6
8	93	9.6	389	21.7	759	130.6
9	181	18.6	396	23.6	794	146.1
10	213	21.9	406	21.4	858	145.5
11	215	22.1	415	22.1	920	168.4
12	148	15.2	421	23.4	960	181.9
13	60	6.2	433	31.4	1033	266.3
14	23	2.4	433	33.8	1097	302.9
15	13	1.3	459	41.4	1347	405.7
16	2	0.2	496	24.7	1713	449.0
TOTAL	972					
MEAN			409	27.9	887	206.0
MEAN AGE 10.4						

Table 26. Age composition of commercial whitefish for each seasonal period from area IW, 1991/92.

AGE (yr)	WINTER NO.	WINTER MEAN FORK LEN. (mm)	WINTER MEAN DR. WT. (g)	SPRING NO.	SPRING MEAN FORK LEN. (mm)	SPRING MEAN DR. WT. (g)	FALL NO.	FALL MEAN FORK LEN. (mm)	FALL MEAN DR. WT. (g)	TOTAL NO.	TOTAL FORK LENGTH(mm) MEAN	TOTAL FORK LENGTH(mm) SD.	TOTAL DRESSED WEIGHT(g) MEAN	TOTAL DRESSED WEIGHT(g) SD.
7	1	390	720	-	-	-	-	-	-	1	390	-	720	-
8	11	362	588	-	-	-	-	-	-	11	362	19.5	588	120.4
9	34	384	723	-	-	-	-	-	-	34	384	23.3	723	145.6
10	31	406	834	-	-	-	-	-	-	31	406	19.4	834	118.7
11	14	422	930	-	-	-	-	-	-	14	422	21.4	930	152.6
12	14	428	974	-	-	-	-	-	-	14	428	20.1	974	126.3
13	5	449	1189	-	-	-	-	-	-	5	449	26.4	1189	323.6
TOTAL	110			-			-			110				
MEAN		402	820		-	-		-	-		402	30.7	820	198.7
MEAN AGE	10.0			-			-			10.0				

Table 27. Age composition of commercial whitefish for each seasonal period from area IE, 1991/92.

AGE (yr)	WINTER NO.	WINTER MEAN FORK LEN. (mm)	WINTER MEAN DR. WT. (g)	SPRING NO.	SPRING MEAN FORK LEN. (mm)	SPRING MEAN DR. WT. (g)	FALL NO.	FALL MEAN FORK LEN. (mm)	FALL MEAN DR. WT. (g)	TOTAL NO.	TOTAL FORK LENGTH(mm) MEAN	TOTAL FORK LENGTH(mm) SD.	TOTAL DRESSED WEIGHT(g) MEAN	TOTAL DRESSED WEIGHT(g) SD.
8	6	377	694	2	377	763	-	-	-	8	377	18.5	711	71.8
9	25	384	719	16	391	767	-	-	-	41	387	17.8	738	118.6
10	17	407	864	25	403	881	-	-	-	42	405	18.9	874	144.0
11	32	409	873	42	418	954	-	-	-	74	414	20.3	919	149.9
12	16	419	928	17	435	1091	-	-	-	33	427	18.7	1012	156.8
13	7	452	1085	3	439	1123	-	-	-	10	448	26.9	1097	260.1
14	1	413	955	1	479	1385	-	-	-	2	446	46.7	1170	304.1
15	2	444	1285	-	-	-	-	-	-	2	444	72.8	1285	707.1
TOTAL	106			106			-			212				
MEAN		406	856		413	936		-	-		410	26.5	896	191.5
MEAN AGE	10.6			10.7			-			10.6				

Table 28. Age composition of commercial whitefish for each seasonal period from area II, 1991/92.

AGE (yr)	WINTER NO.	WINTER MEAN FORK LEN. (mm)	WINTER MEAN DR. WT. (g)	SPRING NO.	SPRING MEAN FORK LEN. (mm)	SPRING MEAN DR. WT. (g)	FALL NO.	FALL MEAN FORK LEN. (mm)	FALL MEAN DR. WT. (g)	TOTAL NO.	TOTAL FORK LENGTH(mm) MEAN	TOTAL FORK LENGTH(mm) SD.	TOTAL DRESSED WEIGHT(g) MEAN	TOTAL DRESSED WEIGHT(g) SD.
6	2	352	550	3	398	833	-	-	-	5	379	29.0	720	186.3
7	3	362	600	7	388	756	-	-	-	10	380	34.7	709	208.8
8	12	384	732	20	402	848	-	-	-	32	395	17.5	805	113.2
9	27	397	815	31	403	826	-	-	-	58	400	22.5	821	137.9
10	19	405	846	27	409	856	-	-	-	46	407	17.1	852	122.2
11	20	414	861	10	417	888	-	-	-	30	415	17.6	870	141.7
12	15	422	918	12	434	1020	-	-	-	27	427	16.2	963	111.2
13	3	441	1085	3	445	1190	-	-	-	6	443	29.0	1138	236.8
14	3	448	1190	2	472	1348	-	-	-	5	457	33.8	1253	382.9
15	-	-	-	2	491	1615	-	-	-	2	491	21.9	1615	275.8
TOTAL	104			117			-			221				
MEAN		405	842		411	889		-	-		408	26.7	867	187.1
MEAN AGE	10.0			9.6			-			9.8				

Table 29. Age composition of commercial whitefish for each seasonal period from area III, 1991/92.

AGE (yr)	WINTER NO.	WINTER MEAN FORK LEN. (mm)	WINTER MEAN DR. WT. (g)	SPRING NO.	SPRING MEAN FORK LEN. (mm)	SPRING MEAN DR. WT. (g)	FALL NO.	FALL MEAN FORK LEN. (mm)	FALL MEAN DR. WT. (g)	TOTAL NO.	TOTAL FORK LENGTH(mm) MEAN	TOTAL FORK LENGTH(mm) SD.	TOTAL DRESSED WEIGHT(g) MEAN	TOTAL DRESSED WEIGHT(g) SD.
8	4	382	740	-	-	-	-	-	-	4	382	17.5	740	86.1
9	8	396	859	-	-	-	-	-	-	8	396	14.9	859	53.1
10	28	405	892	-	-	-	-	-	-	28	405	17.4	892	153.9
11	36	424	1042	-	-	-	-	-	-	36	424	17.3	1042	161.9
12	23	431	1087	-	-	-	-	-	-	23	431	24.4	1087	236.8
13	3	459	1203	-	-	-	-	-	-	3	459	46.2	1203	417.1
14	1	420	1100	-	-	-	-	-	-	1	420	-	1100	-
15	1	508	1960	-	-	-	-	-	-	1	508	-	1960	-
16	1	513	2030	-	-	-	-	-	-	1	513	-	2030	-
TOTAL	105			-			-			105				
MEAN		419	1009		-	-		-	-		419	27.6	1009	245.7
MEAN AGE	10.9			-			-			10.9				

Table 30. Age composition of commercial whitefish for each seasonal period from area IV, 1991/92.

AGE (yr)	WINTER NO.	WINTER MEAN FORK LEN. (mm)	WINTER MEAN DR. WT. (g)	SPRING NO.	SPRING MEAN FORK LEN. (mm)	SPRING MEAN DR. WT. (g)	FALL NO.	FALL MEAN FORK LEN. (mm)	FALL MEAN DR. WT. (g)	TOTAL NO.	TOTAL FORK LENGTH(mm) MEAN	TOTAL FORK LENGTH(mm) SD.	TOTAL DRESSED WEIGHT(g) MEAN	TOTAL DRESSED WEIGHT(g) SD.
6	-	-	-	1	390	715	-	-	-	1	390	-	715	-
7	-	-	-	3	379	703	-	-	-	3	379	19.7	703	98.3
8	5	399	807	14	407	859	-	-	-	19	405	18.3	845	107.9
9	6	385	713	20	422	957	-	-	-	26	414	25.1	901	163.0
10	22	385	701	30	424	973	-	-	-	52	407	30.0	858	182.4
11	19	398	836	18	428	1009	-	-	-	37	413	31.6	920	195.4
12	25	394	818	7	437	1093	-	-	-	32	403	26.7	878	195.6
13	21	411	892	5	476	1419	-	-	-	26	423	32.5	994	269.3
14	8	416	967	3	465	1380	-	-	-	11	430	35.6	1080	316.0
15	4	431	1129	3	467	1413	-	-	-	7	446	38.1	1251	338.2
16	-	-	-	1	478	1395	-	-	-	1	478	-	1395	-
TOTAL	110			105			-			215				
MEAN		399	828		427	1008		-	-		412	30.7	916	222.7
MEAN AGE	11.5			10.2			-			10.9				

Table 31. Age composition of commercial whitefish for each seasonal period from area V, 1991/92.

AGE (yr)	WINTER NO.	WINTER MEAN FORK LEN. (mm)	WINTER MEAN DR. WT. (g)	SPRING NO.	SPRING MEAN FORK LEN. (mm)	SPRING MEAN DR. WT. (g)	FALL NO.	FALL MEAN FORK LEN. (mm)	FALL MEAN DR. WT. (g)	TOTAL NO.	TOTAL FORK LENGTH(mm) MEAN	TOTAL FORK LENGTH(mm) SD.	TOTAL DRESSED WEIGHT(g) MEAN	TOTAL DRESSED WEIGHT(g) SD.
7	4	392	766	-	-	-	-	-	-	4	392	28.6	766	121.5
8	19	386	718	-	-	-	-	-	-	19	386	16.1	718	99.8
9	14	402	786	-	-	-	-	-	-	14	402	20.9	786	102.5
10	14	402	809	-	-	-	-	-	-	14	402	16.5	809	92.3
11	24	404	799	-	-	-	-	-	-	24	404	16.7	799	113.2
12	19	410	836	-	-	-	-	-	-	19	410	16.0	836	94.7
13	10	422	882	-	-	-	-	-	-	10	422	22.0	882	120.4
14	4	412	915	-	-	-	-	-	-	4	412	10.1	915	155.8
15	1	463	1000	-	-	-	-	-	-	1	463	-	1000	-
TOTAL	109			-			-			109				
MEAN		404	803		-	-		-	-		404	20.7	803	115.9
MEAN AGE	10.4			-			-			10.4				

Table 32. Length composition of whitefish for all areas combined from Great Slave Lake commercial fishery, 1991/92.

LENGTH INTERVAL (mm)	NO.	%	FORK LENGTH(mm) MEAN	FORK LENGTH(mm) SD.	DRESSED WEIGHT (g) MEAN	DRESSED WEIGHT (g) SD.
320-329	3	0.2	323	4.6	428	38.2
330-339	3	0.2	332	2.6	425	56.3
340-349	18	1.0	344	3.1	511	45.6
350-359	29	1.5	354	2.9	559	55.2
360-369	59	3.1	364	3.1	621	50.4
370-379	107	5.7	374	2.9	688	52.3
380-389	160	8.5	384	2.8	735	58.4
390-399	265	14.0	394	2.9	786	62.3
400-409	318	16.9	404	2.8	841	70.9
410-419	246	13.0	414	2.9	894	74.7
420-429	256	13.6	423	2.5	946	84.4
430-439	154	8.2	433	2.9	1036	101.6
440-449	106	5.6	443	2.8	1103	125.1
450-459	74	3.9	453	2.7	1203	133.0
460-469	28	1.5	462	2.4	1232	116.8
470-479	27	1.4	474	3.1	1379	146.3
480-489	13	0.7	483	1.8	1440	152.3
490-499	8	0.4	495	2.6	1607	198.1
500-509	4	0.2	505	2.6	1820	97.2
510-519	4	0.2	512	1.3	1783	173.9
520-529	2	0.1	527	0.7	2003	88.4
530-539	1	-	538	-	1755	-
570-579	1	-	575	-	2970	-
580-589	1	-	580	-	2470	-
TOTAL	1887					
MEAN			410	28.7	895	214.4

Table 33. Length composition of commercial whitefish for each seasonal period from area IW, 1991/92.

LENGTH INTERVAL (mm)	WINTER NO.	WINTER MEAN FORK LEN. (mm)	WINTER MEAN DR. WT. (g)	SPRING NO.	SPRING MEAN FORK LEN. (mm)	SPRING MEAN DR. WT. (g)	FALL NO.	FALL MEAN FORK LEN. (mm)	FALL MEAN DR. WT. (g)	TOTAL NO.	TOTAL FORK LENGTH(mm) MEAN	TOTAL FORK LENGTH(mm) SD.	TOTAL DRESSED WEIGHT(g) MEAN	TOTAL DRESSED WEIGHT(g) SD.
320-329	1	320	395	-	-	-	-	-	-	1	320	-	395	-
340-349	5	343	473	-	-	-	-	-	-	5	343	3.0	473	37.8
350-359	8	354	532	-	-	-	-	-	-	8	354	3.2	532	40.9
360-369	13	363	608	-	-	-	-	-	-	13	363	2.8	608	37.5
370-379	17	374	668	-	-	-	-	-	-	17	374	3.3	668	53.6
380-389	25	383	705	-	-	-	-	-	-	25	383	2.8	705	53.6
390-399	32	393	777	-	-	-	-	-	-	32	393	2.8	777	53.0
400-409	24	404	824	-	-	-	-	-	-	24	404	3.2	824	59.5
410-419	26	414	874	-	-	-	-	-	-	26	414	2.9	874	62.3
420-429	27	423	905	-	-	-	-	-	-	27	423	2.3	905	55.4
430-439	13	432	990	-	-	-	-	-	-	13	432	2.6	990	49.7
440-449	8	442	1044	-	-	-	-	-	-	8	442	1.7	1044	101.1
450-459	4	453	1106	-	-	-	-	-	-	4	453	2.6	1106	76.4
460-469	4	462	1185	-	-	-	-	-	-	4	462	1.3	1185	73.4
470-479	2	475	1540	-	-	-	-	-	-	2	475	4.2	1540	77.8
480-489	1	483	1265	-	-	-	-	-	-	1	483	-	1265	-
TOTAL	210			-			-			210				
MEAN		401	812		-	-		-	-		401	28.6	812	177.4

Table 34. Length composition of commercial whitefish for each seasonal period from area 1E, 1991/92.

LENGTH INTERVAL (mm)	WINTER NO.	WINTER MEAN FORK LEN. (mm)	WINTER MEAN DR. WT. (g)	SPRING NO.	SPRING MEAN FORK LEN. (mm)	SPRING MEAN DR. WT. (g)	FALL NO.	FALL MEAN FORK LEN. (mm)	FALL MEAN DR. WT. (g)	TOTAL NO.	TOTAL FORK LENGTH(mm) MEAN	TOTAL FORK LENGTH(mm) SD.	TOTAL DRESSED WEIGHT(g) MEAN	TOTAL DRESSED WEIGHT(g) SD.
320-329	1	328	470	-	-	-	-	-	-	1	328	-	470	-
330-339	1	330	460	-	-	-	-	-	-	1	330	-	460	-
340-349	3	344	537	-	-	-	-	-	-	3	344	4.0	537	51.3
350-359	3	354	607	3	350	517	-	-	-	6	352	2.8	562	80.0
360-369	10	363	644	5	365	647	-	-	-	15	364	2.9	645	64.9
370-379	12	374	684	12	374	699	-	-	-	24	374	2.9	691	37.9
380-389	25	384	745	11	383	768	-	-	-	36	383	2.5	752	54.6
390-399	32	395	789	25	394	790	-	-	-	57	394	2.9	789	67.7
400-409	31	404	841	39	404	867	-	-	-	70	404	2.6	856	68.0
410-419	26	415	905	32	414	921	-	-	-	58	414	3.0	914	81.4
420-429	30	424	931	25	425	992	-	-	-	55	424	2.7	958	79.8
430-439	15	433	1005	27	432	1088	-	-	-	42	433	3.0	1058	102.5
440-449	10	444	1066	12	446	1202	-	-	-	22	445	2.4	1160	102.9
450-459	6	453	1091	9	453	1274	-	-	-	15	453	2.3	1201	135.2
460-469	1	462	1045	5	463	1361	-	-	-	6	463	3.2	1308	147.8
470-479	1	475	1470	5	475	1408	-	-	-	6	475	2.3	1418	199.3
480-489	1	485	1235	-	-	-	-	-	-	1	485	-	1235	-
490-499	2	494	1643	-	-	-	-	-	-	2	494	2.1	1643	201.5
TOTAL	210			210			-			420				
MEAN		406	856		414	946		-	-		410	26.9	901	192.9

Table 35. Length composition of commercial whitefish for each seasonal period from area 11, 1991/92.

LENGTH INTERVAL (mm)	WINTER NO.	WINTER MEAN FORK LEN. (mm)	WINTER MEAN DR. WT. (g)	SPRING NO.	SPRING MEAN FORK LEN. (mm)	SPRING MEAN DR. WT. (g)	FALL NO.	FALL MEAN FORK LEN. (mm)	FALL MEAN DR. WT. (g)	TOTAL NO.	TOTAL FORK LENGTH(mm) MEAN	TOTAL FORK LENGTH(mm) SD.	TOTAL DRESSED WEIGHT(g) MEAN	TOTAL DRESSED WEIGHT(g) SD.
320-329	1	320	420	-	-	-	-	-	-	1	320	-	420	-
330-339	1	331	360	1	335	455	-	-	-	2	333	2.8	408	67.2
340-349	2	348	525	1	347	540	-	-	-	3	348	0.6	530	10.0
350-359	4	354	548	-	-	-	-	-	-	4	354	3.5	548	45.7
360-369	7	363	606	4	361	583	-	-	-	11	362	2.7	598	36.3
370-379	14	373	689	10	375	686	-	-	-	24	374	2.9	688	49.9
380-389	25	385	745	17	384	731	-	-	-	42	384	2.8	740	60.3
390-399	30	395	786	26	394	761	-	-	-	56	394	2.8	774	55.9
400-409	46	403	830	42	404	840	-	-	-	88	404	2.8	835	68.2
410-419	25	414	869	35	413	883	-	-	-	60	413	2.7	877	60.8
420-429	24	424	913	25	423	942	-	-	-	49	424	2.6	928	82.2
430-439	14	435	987	10	435	1024	-	-	-	24	435	3.0	1003	100.4
440-449	9	442	1050	12	445	1047	-	-	-	21	444	2.9	1048	109.3
450-459	2	454	1235	12	453	1140	-	-	-	14	453	2.6	1153	77.3
460-469	1	460	1180	2	464	1218	-	-	-	3	463	3.8	1205	75.7
470-479	1	478	1380	5	474	1314	-	-	-	6	475	2.4	1325	104.3
480-489	-	-	-	2	482	1423	-	-	-	2	482	1.4	1423	60.1
490-499	1	497	1795	2	494	1440	-	-	-	3	495	4.0	1558	266.3
500-509	-	-	-	1	506	1810	-	-	-	1	506	-	1810	-
510-519	1	512	1645	-	-	-	-	-	-	1	512	-	1645	-
520-529	-	-	-	2	527	2003	-	-	-	2	527	0.7	2003	88.4
530-539	-	-	-	1	538	1755	-	-	-	1	538	-	1755	-
570-579	-	-	-	1	575	2970	-	-	-	1	575	-	2970	-
TOTAL	208			211			-			419				
MEAN		404	835		416	919		-	-		410	30.1	877	227.7

Table 36. Length composition of commercial whitefish for each seasonal period from area III, 1991/92.

LENGTH INTERVAL (mm)	WINTER NO.	WINTER MEAN FORK LEN. (mm)	WINTER MEAN DR. WT. (g)	SPRING NO.	SPRING MEAN FORK LEN. (mm)	SPRING MEAN DR. WT. (g)	FALL NO.	FALL MEAN FORK LEN. (mm)	FALL MEAN DR. WT. (g)	TOTAL NO.	TOTAL FORK LENGTH(mm) MEAN	TOTAL FORK LENGTH(mm) SD.	TOTAL DRESSED WEIGHT(g) MEAN	TOTAL DRESSED WEIGHT(g) SD.
340-349	1	342	540	-	-	-	-	-	-	1	342	-	540	-
350-359	2	352	618	-	-	-	-	-	-	2	352	0.0	618	67.2
360-369	3	366	657	-	-	-	-	-	-	3	366	2.5	657	50.3
370-379	6	375	738	-	-	-	-	-	-	6	375	2.8	738	69.7
380-389	6	384	748	-	-	-	-	-	-	6	384	4.1	748	75.8
390-399	26	395	834	-	-	-	-	-	-	26	395	3.1	834	54.1
400-409	30	404	880	-	-	-	-	-	-	30	404	2.7	880	74.1
410-419	22	414	953	-	-	-	-	-	-	22	414	2.8	953	85.3
420-429	35	424	994	-	-	-	-	-	-	35	424	2.5	994	78.8
430-439	26	433	1087	-	-	-	-	-	-	26	433	2.8	1087	121.1
440-449	21	443	1188	-	-	-	-	-	-	21	443	2.9	1188	109.4
450-459	19	454	1314	-	-	-	-	-	-	19	454	2.6	1314	111.8
460-469	3	462	1353	-	-	-	-	-	-	3	462	2.9	1353	5.8
470-479	3	473	1318	-	-	-	-	-	-	3	473	5.2	1318	53.5
480-489	2	481	1500	-	-	-	-	-	-	2	481	1.4	1500	127.3
500-509	2	506	1853	-	-	-	-	-	-	2	506	2.8	1853	152.0
510-519	3	512	1828	-	-	-	-	-	-	3	512	1.5	1828	181.0
TOTAL	210			-			-			210				
MEAN		422	1023		-	-		-	-		422	28.5	1023	238.0

Table 37. Length composition of commercial whitefish for each seasonal period from area IV, 1991/92.

LENGTH INTERVAL (mm)	WINTER NO.	WINTER MEAN FORK LEN. (mm)	WINTER MEAN DR. WT. (g)	SPRING NO.	SPRING MEAN FORK LEN. (mm)	SPRING MEAN DR. WT. (g)	FALL NO.	FALL MEAN FORK LEN. (mm)	FALL MEAN DR. WT. (g)	TOTAL NO.	TOTAL FORK LENGTH(mm) MEAN	TOTAL FORK LENGTH(mm) SD.	TOTAL DRESSED WEIGHT(g) MEAN	TOTAL DRESSED WEIGHT(g) SD.
340-349	4	344	519	-	-	-	-	-	-	4	344	2.6	519	52.7
350-359	6	353	557	1	357	665	-	-	-	7	354	2.9	572	50.1
360-369	9	365	612	2	364	620	-	-	-	11	364	3.2	613	33.8
370-379	16	374	693	3	377	717	-	-	-	19	374	3.4	697	57.8
380-389	28	384	755	5	384	767	-	-	-	33	384	2.5	757	53.3
390-399	43	394	790	18	393	776	-	-	-	61	394	2.9	786	64.0
400-409	32	404	853	20	403	859	-	-	-	52	404	2.8	855	68.8
410-419	24	413	897	29	413	907	-	-	-	53	413	2.8	902	59.8
420-429	20	422	938	36	423	982	-	-	-	56	423	2.4	966	79.2
430-439	14	432	1002	27	433	1049	-	-	-	41	433	2.3	1033	82.2
440-449	6	442	1053	25	442	1097	-	-	-	31	442	2.6	1089	122.1
450-459	3	458	1235	16	453	1157	-	-	-	19	454	3.0	1169	134.4
460-469	2	462	1100	7	462	1239	-	-	-	9	462	2.1	1208	89.1
470-479	2	476	1333	8	473	1383	-	-	-	10	474	3.4	1373	149.8
480-489	1	482	1740	6	484	1438	-	-	-	7	484	1.6	1481	166.3
490-499	-	-	-	3	496	1632	-	-	-	3	496	1.0	1632	201.1
500-509	-	-	-	1	502	1765	-	-	-	1	502	-	1765	-
580-589	-	-	-	1	580	2470	-	-	-	1	580	-	2470	-
TOTAL	210			208			-			418				
MEAN		401	835		428	1021		-	-		414	30.4	928	223.1

Table 38. Length composition of commercial whitefish for each seasonal period from area V, 1991/92.

LENGTH INTERVAL (mm)	WINTER NO.	WINTER MEAN FORK LEN. (mm)	WINTER MEAN DR. WT. (g)	SPRING NO.	SPRING MEAN FORK LEN. (mm)	SPRING MEAN DR. WT. (g)	FALL NO.	FALL MEAN FORK LEN. (mm)	FALL MEAN DR. WT. (g)	TOTAL NO.	TOTAL FORK LENGTH(mm) MEAN	TOTAL FORK LENGTH(mm) SD.	TOTAL DRESSED WEIGHT(g) MEAN	TOTAL DRESSED WEIGHT(g) SD.
340-349	2	341	508	-	-	-	-	-	-	2	341	1.4	508	67.2
350-359	2	355	575	-	-	-	-	-	-	2	355	4.2	575	28.3
360-369	6	368	633	-	-	-	-	-	-	6	368	0.4	633	62.8
370-379	17	374	674	-	-	-	-	-	-	17	374	2.6	674	51.3
380-389	18	384	690	-	-	-	-	-	-	18	384	3.2	690	29.4
390-399	33	394	772	-	-	-	-	-	-	33	394	2.8	772	59.5
400-409	54	404	805	-	-	-	-	-	-	54	404	3.1	805	66.7
410-419	27	415	844	-	-	-	-	-	-	27	415	2.9	844	73.4
420-429	34	423	900	-	-	-	-	-	-	34	423	2.5	900	89.9
430-439	8	433	947	-	-	-	-	-	-	8	433	3.2	947	79.0
440-449	3	442	907	-	-	-	-	-	-	3	442	0.6	907	122.1
450-459	3	455	1088	-	-	-	-	-	-	3	455	2.5	1088	105.0
460-469	3	464	1117	-	-	-	-	-	-	3	464	1.5	1117	128.9
TOTAL	210			-			-			210				
MEAN		404	805		-	-		-	-		404	21.1	805	121.1

Table 39. Weight composition by market weight intervals for lake whitefish from commercial plant samples on Great Slave Lake, 1992/93.

MARKET WEIGHT INTERVAL (DRESSED)	AREA IE		AREA IW		AREA II		AREA III		AREA IV		AREA V		TOTAL	
	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%
NO MARKET (< 0.45 kg)	-	-	1	-	-	-	-	-	-	-	2	-	3	-
SMALL (0.45-0.69 kg)	14	4	6	3	30	7	4	2	25	4	21	5	100	5
MEDIUM (0.70-1.39 kg)	306	93	185	88	347	83	200	95	586	93	384	91	2008	91
LARGE (1.40-1.80 kg)	8	2	16	8	28	7	5	2	18	3	10	2	85	4
JUMBO (> 1.80 kg)	-	-	2	-	12	3	1	-	1	-	3	-	19	-
TOTAL	328		210		417		210		630		420		2215	

Table 40. Age composition of whitefish for all areas combined from Great Slave Lake commercial fishery, 1992/93.

AGE (yr)	NO.	%	FORK LENGTH(mm) MEAN	FORK LENGTH(mm) SD.	DRESSED WEIGHT (g) MEAN	DRESSED WEIGHT (g) SD.
5	1	-	364	-	515	-
6	3	0.3	384	18.2	772	79.1
7	39	3.7	392	26.1	827	171.1
8	57	5.4	401	20.9	867	124.1
9	123	11.6	406	21.6	906	135.7
10	228	21.6	409	23.1	925	176.5
11	241	22.8	412	26.5	945	187.0
12	180	17.0	420	30.2	996	242.5
13	113	10.7	423	32.6	1001	277.3
14	60	5.7	434	31.0	1111	264.3
15	11	1.0	461	33.3	1267	298.2
16	2	0.2	498	71.4	1600	671.8
TOTAL	1058					
MEAN			414	28.8	955	217.7
MEAN AGE 10.8						

Table 41. Age composition of commercial whitefish for each seasonal period from area IW, 1992/93.

AGE (yr)	WINTER NO.	WINTER MEAN FORK LEN. (mm)	WINTER MEAN DR. WT. (g)	SPRING NO.	SPRING MEAN FORK LEN. (mm)	SPRING MEAN DR. WT. (g)	FALL NO.	FALL MEAN FORK LEN. (mm)	FALL MEAN DR. WT. (g)	TOTAL NO.	TOTAL FORK LENGTH(mm) MEAN	TOTAL FORK LENGTH(mm) SD.	TOTAL DRESSED WEIGHT(g) MEAN	TOTAL DRESSED WEIGHT(g) SD.
6	1	393	790	-	-	-	-	-	-	1	393	-	790	-
7	8	386	752	-	-	-	-	-	-	8	386	26.8	752	200.9
8	7	391	781	-	-	-	-	-	-	7	391	10.4	781	35.3
9	17	414	912	-	-	-	-	-	-	17	414	23.9	912	132.0
10	34	413	916	-	-	-	-	-	-	34	413	21.9	916	127.2
11	21	433	1045	-	-	-	-	-	-	21	433	35.0	1045	253.3
12	6	461	1330	-	-	-	-	-	-	6	461	34.3	1330	213.9
13	6	440	1101	-	-	-	-	-	-	6	440	23.1	1101	172.6
14	4	476	1389	-	-	-	-	-	-	4	476	30.6	1389	228.6
15	1	513	1835	-	-	-	-	-	-	1	513	-	1835	-
TOTAL	105			-			-			105				
MEAN		421	979		-	-		-	-		421	34.2	979	243.8
MEAN AGE	10.1			-			-			10.1				

Table 42. Age composition of commercial whitefish for each seasonal period from area IE, 1992/93.

AGE (yr)	WINTER NO.	WINTER MEAN FORK LEN. (mm)	WINTER MEAN DR. WT. (g)	SPRING NO.	SPRING MEAN FORK LEN. (mm)	SPRING MEAN DR. WT. (g)	FALL NO.	FALL MEAN FORK LEN. (mm)	FALL MEAN DR. WT. (g)	TOTAL NO.	TOTAL FORK LENGTH(mm) MEAN	TOTAL FORK LENGTH(mm) SD.	TOTAL DRESSED WEIGHT(g) MEAN	TOTAL DRESSED WEIGHT(g) SD.
7	6	384	735	1	355	690	-	-	-	7	380	13.9	729	78.0
8	3	387	775	5	376	775	-	-	-	8	380	14.5	775	95.0
9	11	406	906	19	391	872	-	-	-	30	397	21.0	885	151.8
10	29	407	913	40	400	903	-	-	-	69	403	19.1	907	125.0
11	9	412	942	29	410	958	-	-	-	38	411	21.9	954	152.4
12	2	458	1430	12	419	1023	-	-	-	14	425	25.3	1081	209.1
13	1	410	960	2	444	1308	-	-	-	3	432	23.6	1192	249.0
14	-	-	-	1	437	1220	-	-	-	1	437	-	1220	-
15	1	487	1565	-	-	-	-	-	-	1	487	-	1565	-
TOTAL	62			109			-			171				
MEAN		407	920		403	928		-	-		405	23.7	925	171.2
MEAN AGE	9.8			10.3			-			10.1				

Table 43. Age composition of commercial whitefish for each seasonal period from area II, 1992/93.

AGE (yr)	WINTER NO.	WINTER MEAN FORK LEN. (mm)	WINTER MEAN DR. WT. (g)	SPRING NO.	SPRING MEAN FORK LEN. (mm)	SPRING MEAN DR. WT. (g)	FALL NO.	FALL MEAN FORK LEN. (mm)	FALL MEAN DR. WT. (g)	TOTAL NO.	TOTAL FORK LENGTH(mm) MEAN	TOTAL FORK LENGTH(mm) SD.	TOTAL DRESSED WEIGHT(g) MEAN	TOTAL DRESSED WEIGHT(g) SD.
6	-	-	-	2	380	763	-	-	-	2	380	23.3	763	109.6
7	8	379	764	12	412	970	-	-	-	20	398	28.5	888	175.7
8	2	386	818	16	415	941	-	-	-	18	411	20.0	928	126.8
9	10	398	873	18	416	960	-	-	-	28	409	18.1	929	121.9
10	11	414	929	24	425	1039	-	-	-	35	422	26.4	1004	269.1
11	7	435	1089	13	446	1150	-	-	-	20	442	29.4	1128	225.1
12	6	453	1253	12	467	1388	-	-	-	18	463	29.2	1343	305.8
13	2	490	1545	5	488	1627	-	-	-	7	489	42.6	1604	481.0
14	2	454	1283	5	494	1578	-	-	-	7	482	24.8	1494	316.0
15	-	-	-	1	500	1530	-	-	-	1	500	-	1530	-
16	-	-	-	1	548	2075	-	-	-	1	548	-	2075	-
TOTAL	48			109			-			157				
MEAN		416	989		435	1116		-	-		429	38.4	1077	321.1
MEAN AGE	9.9			9.9			-			9.9				

Table 44. Age composition of commercial whitefish for each seasonal period from area III, 1992/93.

AGE (yr)	WINTER NO.	WINTER MEAN FORK LEN. (mm)	WINTER MEAN DR. WT. (g)	SPRING NO.	SPRING MEAN FORK LEN. (mm)	SPRING MEAN DR. WT. (g)	FALL NO.	FALL MEAN FORK LEN. (mm)	FALL MEAN DR. WT. (g)	TOTAL NO.	TOTAL FORK LENGTH(mm) MEAN	TOTAL FORK LENGTH(mm) SD.	TOTAL DRESSED WEIGHT(g) MEAN	TOTAL DRESSED WEIGHT(g) SD.
8	-	-	-	2	376	793	-	-	-	2	376	4.2	793	10.6
9	-	-	-	15	402	905	-	-	-	15	402	14.4	905	108.4
10	-	-	-	29	405	931	-	-	-	29	405	15.7	931	119.9
11	-	-	-	35	417	1041	-	-	-	35	417	18.2	1041	143.1
12	-	-	-	10	424	1060	-	-	-	10	424	16.7	1060	160.5
13	-	-	-	4	436	1051	-	-	-	4	436	17.2	1051	62.5
14	-	-	-	2	451	1293	-	-	-	2	451	51.6	1293	576.3
TOTAL	-			97			-			97				
MEAN		-	-		412	989		-	-		412	20.5	989	160.2
MEAN AGE	-			10.6			-			10.6				

Table 45. Age composition of commercial whitefish for each seasonal period from area IV, 1992/93.

AGE (yr)	WINTER NO.	WINTER MEAN FORK LEN. (mm)	WINTER MEAN DR. WT. (g)	SPRING NO.	SPRING MEAN FORK LEN. (mm)	SPRING MEAN DR. WT. (g)	FALL NO.	FALL MEAN FORK LEN. (mm)	FALL MEAN DR. WT. (g)	TOTAL NO.	TOTAL FORK LENGTH(mm) MEAN	TOTAL FORK LENGTH(mm) SD.	TOTAL DRESSED WEIGHT(g) MEAN	TOTAL DRESSED WEIGHT(g) SD.
7	1	375	775	2	396	855	-	-	-	3	389	25.4	828	92.4
8	-	-	-	18	409	907	1	352	515	19	406	19.1	887	123.8
9	2	377	748	22	418	955	5	398	792	29	412	22.9	912	139.7
10	9	386	831	26	424	1023	11	394	762	46	410	27.8	923	217.4
11	44	390	840	21	423	982	22	402	807	87	401	20.1	866	126.8
12	28	402	882	11	450	1189	36	409	878	75	412	23.0	925	162.3
13	12	409	982	2	450	1038	25	416	897	39	416	22.6	930	154.3
14	11	416	1065	1	405	1035	6	419	930	18	417	14.0	1019	156.8
15	-	-	-	1	470	1270	1	413	905	2	442	40.3	1088	258.1
TOTAL	107			104			107			318				
MEAN		397	887		423	997		407	852		409	23.0	911	160.9
MEAN AGE	11.6			9.9			11.8			11.1				

Table 46. Age composition of commercial whitefish for each seasonal period from area V, 1992/93.

AGE (yr)	WINTER NO.	WINTER MEAN FORK LEN. (mm)	WINTER MEAN DR. WT. (g)	SPRING NO.	SPRING MEAN FORK LEN. (mm)	SPRING MEAN DR. WT. (g)	FALL NO.	FALL MEAN FORK LEN. (mm)	FALL MEAN DR. WT. (g)	TOTAL NO.	TOTAL FORK LENGTH(mm) MEAN	TOTAL FORK LENGTH(mm) SD.	TOTAL DRESSED WEIGHT(g) MEAN	TOTAL DRESSED WEIGHT(g) SD.
5	-	-	-	-	-	-	1	364	515	1	364	-	515	-
7	-	-	-	1	422	895	-	-	-	1	422	-	895	-
8	-	-	-	2	400	853	1	398	920	3	399	24.0	875	138.1
9	-	-	-	1	362	600	3	410	932	4	398	32.7	849	218.0
10	-	-	-	4	398	790	11	410	852	15	407	20.6	836	92.6
11	-	-	-	25	400	879	15	410	883	40	404	24.6	880	181.7
12	-	-	-	30	412	960	27	408	859	57	410	26.9	913	198.5
13	-	-	-	28	413	984	26	419	911	54	416	29.5	949	236.8
14	-	-	-	9	424	1038	19	426	1009	28	426	21.9	1019	173.5
15	-	-	-	2	436	1105	4	456	1156	6	449	24.1	1139	189.5
16	-	-	-	-	-	-	1	447	1125	1	447	-	1125	-
TOTAL	-			102			108			210				
MEAN		-	-		410	944		416	914		413	27.5	928	204.7
MEAN AGE	-			12.0			12.2			12.1				

Table 47. Length composition of whitefish for all areas combined from Great Slave Lake commercial fishery, 1992/93.

LENGTH INTERVAL (mm)	NO.	%	FORK LENGTH(mm) MEAN	FORK LENGTH(mm) SD.	DRESSED WEIGHT (g) MEAN	DRESSED WEIGHT (g) SD.
310-319	1	-	318	-	355	-
320-329	1	-	324	-	475	-
330-339	3	0.1	335	4.0	500	80.0
340-349	9	0.4	343	2.9	516	70.6
350-359	25	1.1	354	2.4	631	59.4
360-369	52	2.3	364	2.8	675	59.8
370-379	123	5.6	374	2.9	733	59.0
380-389	236	10.7	384	2.9	782	58.7
390-399	286	12.9	394	2.9	832	61.4
400-409	389	17.6	404	2.7	883	68.4
410-419	320	14.4	414	2.8	943	74.6
420-429	246	11.1	424	2.8	996	85.9
430-439	200	9.0	434	2.8	1087	98.7
440-449	110	5.0	443	2.7	1120	98.2
450-459	69	3.1	454	2.3	1223	133.6
460-469	40	1.8	464	2.8	1298	100.8
470-479	39	1.8	474	3.0	1388	145.4
480-489	16	0.7	485	3.0	1491	169.8
490-499	22	1.0	494	3.0	1557	175.0
500-509	15	0.7	502	2.4	1706	225.2
510-519	4	0.2	516	2.6	1926	216.7
520-529	4	0.2	525	4.2	2051	193.4
530-539	2	-	535	3.5	2028	53.0
540-549	1	-	548	-	2075	-
550-559	1	-	558	-	2460	-
580-589	1	-	582	-	2795	-
TOTAL	2215					
MEAN			412	29.6	949	220.2

Table 48. Length composition of commercial whitefish for each seasonal period from area IW, 1992/93.

LENGTH INTERVAL (mm)	WINTER NO.	WINTER MEAN FORK LEN. (mm)	WINTER MEAN DR. WT. (g)	SPRING NO.	SPRING MEAN FORK LEN. (mm)	SPRING MEAN DR. WT. (g)	FALL NO.	FALL MEAN FORK LEN. (mm)	FALL MEAN DR. WT. (g)	TOTAL NO.	TOTAL FORK LENGTH(mm) MEAN	TOTAL FORK LENGTH(mm) SD.	TOTAL DRESSED WEIGHT(g) MEAN	TOTAL DRESSED WEIGHT(g) SD.
340-349	1	340	385	-	-	-	-	-	-	1	340	-	385	-
350-359	1	355	520	-	-	-	-	-	-	1	355	-	520	-
360-369	4	363	650	-	-	-	-	-	-	4	363	0.8	650	44.9
370-379	5	374	737	-	-	-	-	-	-	5	374	2.9	737	71.9
380-389	16	384	761	-	-	-	-	-	-	16	384	3.4	761	62.7
390-399	29	393	805	-	-	-	-	-	-	29	393	2.7	805	39.4
400-409	30	403	851	-	-	-	-	-	-	30	403	2.7	851	61.0
410-419	29	413	928	-	-	-	-	-	-	29	413	2.1	928	57.7
420-429	17	423	972	-	-	-	-	-	-	17	423	2.7	972	78.5
430-439	24	433	1082	-	-	-	-	-	-	24	433	2.4	1082	69.4
440-449	16	442	1079	-	-	-	-	-	-	16	442	2.1	1079	76.6
450-459	8	453	1173	-	-	-	-	-	-	8	453	2.0	1173	83.8
460-469	9	464	1299	-	-	-	-	-	-	9	464	3.1	1299	125.1
470-479	10	472	1374	-	-	-	-	-	-	10	472	2.1	1374	124.4
480-489	1	487	1615	-	-	-	-	-	-	1	487	-	1615	-
490-499	3	495	1393	-	-	-	-	-	-	3	495	2.0	1393	45.4
500-509	5	502	1632	-	-	-	-	-	-	5	502	1.8	1632	159.6
510-519	2	514	1760	-	-	-	-	-	-	2	514	1.4	1760	106.1
TOTAL	210			-			-			210				
MEAN		421	987		-	-		-	-		421	32.7	987	239.7

Table 49. Length composition of commercial whitefish for each seasonal period from area 1E, 1992/93.

LENGTH INTERVAL (mm)	WINTER NO.	WINTER MEAN FORK LEN. (mm)	WINTER MEAN DR. WT. (g)	SPRING NO.	SPRING MEAN FORK LEN. (mm)	SPRING MEAN DR. WT. (g)	FALL NO.	FALL MEAN FORK LEN. (mm)	FALL MEAN DR. WT. (g)	TOTAL NO.	TOTAL FORK LENGTH(mm) MEAN	TOTAL FORK LENGTH(mm) SD.	TOTAL DRESSED WEIGHT(g) MEAN	TOTAL DRESSED WEIGHT(g) SD.
340-349	1	345	540	-	-	-	-	-	-	1	345	-	540	-
350-359	1	352	660	2	355	695	-	-	-	3	354	1.5	683	20.8
360-369	6	362	661	9	365	697	-	-	-	15	364	3.1	682	50.2
370-379	15	373	713	9	374	763	-	-	-	24	373	3.2	732	55.0
380-389	24	384	774	36	384	807	-	-	-	60	384	3.1	794	55.8
390-399	11	394	835	34	395	864	-	-	-	45	395	2.9	857	52.9
400-409	22	404	918	45	403	913	-	-	-	67	403	2.8	915	60.9
410-419	18	413	943	30	414	982	-	-	-	48	414	2.9	967	69.7
420-429	5	423	1053	19	424	1022	-	-	-	24	423	2.8	1028	95.4
430-439	9	432	1064	16	434	1127	-	-	-	25	433	3.1	1104	97.1
440-449	2	440	1108	3	442	1207	-	-	-	5	441	1.8	1167	127.0
450-459	2	456	1398	3	455	1348	-	-	-	5	455	1.6	1368	125.7
460-469	-	-	-	2	464	1368	-	-	-	2	464	2.1	1368	116.7
480-489	2	485	1510	1	489	1605	-	-	-	3	486	3.6	1542	77.7
490-499	1	490	1630	-	-	-	-	-	-	1	490	-	1630	-
TOTAL	119			209			-			328				
MEAN		400	885		403	923		-	-		402	23.2	909	167.7

Table 50. Length composition of commercial whitefish for each seasonal period from area II, 1992/93.

LENGTH INTERVAL (mm)	WINTER NO.	WINTER MEAN FORK LEN. (mm)	WINTER MEAN DR. WT. (g)	SPRING NO.	SPRING MEAN FORK LEN. (mm)	SPRING MEAN DR. WT. (g)	FALL NO.	FALL MEAN FORK LEN. (mm)	FALL MEAN DR. WT. (g)	TOTAL NO.	TOTAL FORK LENGTH(mm) MEAN	TOTAL FORK LENGTH(mm) SD.	TOTAL DRESSED WEIGHT(g) MEAN	TOTAL DRESSED WEIGHT(g) SD.
340-349	3	341	578	1	349	570	-	-	-	4	343	3.9	576	17.0
350-359	9	354	614	2	358	643	-	-	-	11	355	3.0	620	63.5
360-369	11	363	657	1	363	685	-	-	-	12	363	2.6	660	58.0
370-379	23	373	730	7	376	709	-	-	-	30	374	3.0	726	59.3
380-389	34	384	781	5	386	765	-	-	-	39	384	2.7	779	56.7
390-399	27	393	847	17	396	862	-	-	-	44	394	3.3	853	47.2
400-409	24	404	921	24	405	908	-	-	-	48	404	3.0	914	74.5
410-419	26	413	942	19	415	955	-	-	-	45	414	2.9	948	67.5
420-429	11	423	1023	36	425	1007	-	-	-	47	424	3.2	1011	74.2
430-439	17	433	1082	32	435	1100	-	-	-	49	435	2.9	1094	88.3
440-449	10	444	1192	10	446	1191	-	-	-	20	445	2.6	1191	80.8
450-459	5	453	1214	7	455	1266	-	-	-	12	455	2.8	1245	150.0
460-469	4	462	1263	8	464	1296	-	-	-	12	463	3.3	1285	91.1
470-479	1	478	1705	14	475	1374	-	-	-	15	475	3.0	1396	143.8
480-489	1	483	1425	4	488	1385	-	-	-	5	487	2.6	1393	247.9
490-499	3	495	1628	8	495	1630	-	-	-	11	495	3.0	1630	162.0
500-509	-	-	-	4	502	1638	-	-	-	4	502	2.6	1638	213.1
510-519	-	-	-	1	519	2190	-	-	-	1	519	-	2190	-
520-529	-	-	-	4	525	2051	-	-	-	4	525	4.2	2051	193.4
530-539	-	-	-	1	537	2065	-	-	-	1	537	-	2065	-
540-549	-	-	-	1	548	2075	-	-	-	1	548	-	2075	-
550-559	-	-	-	1	558	2460	-	-	-	1	558	-	2460	-
580-589	-	-	-	1	582	2795	-	-	-	1	582	-	2795	-
TOTAL	209			208			-			417				
MEAN		401	899		434	1119		-	-		418	38.4	1009	301.1

Table 51. Length composition of commercial whitefish for each seasonal period from area III, 1992/93.

LENGTH INTERVAL (mm)	WINTER NO.	WINTER MEAN FORK LEN. (mm)	WINTER MEAN DR. WT. (g)	SPRING NO.	SPRING MEAN FORK LEN. (mm)	SPRING MEAN DR. WT. (g)	FALL NO.	FALL MEAN FORK LEN. (mm)	FALL MEAN DR. WT. (g)	TOTAL NO.	TOTAL FORK LENGTH(mm) MEAN	TOTAL FORK LENGTH(mm) SD.	TOTAL DRESSED WEIGHT(g) MEAN	TOTAL DRESSED WEIGHT(g) SD.
350-359	-	-	-	1	353	670	-	-	-	1	353	-	670	-
360-369	-	-	-	4	368	721	-	-	-	4	368	1.0	721	60.6
370-379	-	-	-	15	374	759	-	-	-	15	374	3.3	759	61.5
380-389	-	-	-	20	386	824	-	-	-	20	386	2.9	824	38.8
390-399	-	-	-	28	394	874	-	-	-	28	394	2.8	874	56.4
400-409	-	-	-	36	404	906	-	-	-	36	404	2.7	906	62.1
410-419	-	-	-	39	414	990	-	-	-	39	414	3.0	990	71.6
420-429	-	-	-	21	424	1066	-	-	-	21	424	2.4	1066	89.5
430-439	-	-	-	25	434	1133	-	-	-	25	434	2.9	1133	114.8
440-449	-	-	-	9	443	1196	-	-	-	9	443	2.3	1196	67.3
450-459	-	-	-	6	454	1284	-	-	-	6	454	0.8	1284	70.2
460-469	-	-	-	2	463	1233	-	-	-	2	463	2.1	1233	258.1
480-489	-	-	-	3	483	1603	-	-	-	3	483	3.5	1603	90.7
500-509	-	-	-	1	503	2130	-	-	-	1	503	-	2130	-
TOTAL	-			210			-			210				
MEAN		-	-		411	979		-	-		411	24.1	979	190.2

Table 52. Length composition of commercial whitefish for each seasonal period from area IV, 1992/93.

LENGTH INTERVAL (mm)	WINTER NO.	WINTER MEAN FORK LEN. (mm)	WINTER MEAN DR. WT. (g)	SPRING NO.	SPRING MEAN FORK LEN. (mm)	SPRING MEAN DR. WT. (g)	FALL NO.	FALL MEAN FORK LEN. (mm)	FALL MEAN DR. WT. (g)	TOTAL NO.	TOTAL FORK LENGTH(mm) MEAN	TOTAL FORK LENGTH(mm) SD.	TOTAL DRESSED WEIGHT(g) MEAN	TOTAL DRESSED WEIGHT(g) SD.
340-349	-	-	-	-	-	-	1	344	465	1	344	-	465	-
350-359	5	355	661	1	353	665	3	354	580	9	354	2.0	634	50.1
360-369	6	363	716	1	363	660	2	367	633	9	364	2.7	691	57.2
370-379	22	374	753	4	373	700	3	373	640	29	374	2.4	734	57.8
380-389	38	384	799	5	385	808	23	386	742	66	385	2.7	779	53.5
390-399	30	394	845	18	395	837	38	394	772	86	394	2.8	811	63.2
400-409	53	404	912	29	404	871	51	404	828	133	404	2.5	871	66.9
410-419	25	414	992	26	414	925	38	414	889	89	414	2.7	928	77.3
420-429	16	423	1024	35	424	990	30	424	935	81	424	2.7	977	77.3
430-439	7	432	1131	33	434	1074	10	433	1045	50	434	2.8	1076	98.9
440-449	2	440	1215	23	444	1122	4	442	1048	29	444	3.0	1118	95.3
450-459	1	454	1370	19	454	1233	3	451	990	23	454	2.4	1208	140.0
460-469	2	463	1335	4	463	1290	-	-	-	6	463	2.2	1305	90.9
470-479	2	475	1215	7	473	1411	-	-	-	9	473	2.9	1368	183.2
480-489	-	-	-	1	486	1590	2	482	1365	3	483	2.6	1440	143.1
490-499	-	-	-	3	492	1650	2	492	1378	5	492	2.9	1541	214.1
500-509	1	500	1665	-	-	-	-	-	-	1	500	-	1665	-
530-539	-	-	-	1	532	1990	-	-	-	1	532	-	1990	-
TOTAL	210			210			210			630				
MEAN		399	895		426	1026		407	852		411	25.5	924	181.3

Table 53. Length composition of commercial whitefish for each seasonal period from area V, 1992/93.

LENGTH INTERVAL (mm)	WINTER NO.	WINTER MEAN FORK LEN. (mm)	WINTER MEAN DR. WT. (g)	SPRING NO.	SPRING MEAN FORK LEN. (mm)	SPRING MEAN DR. WT. (g)	FALL NO.	FALL MEAN FORK LEN. (mm)	FALL MEAN DR. WT. (g)	TOTAL NO.	TOTAL FORK LENGTH(mm) MEAN	TOTAL FORK LENGTH(mm) SD.	TOTAL DRESSED WEIGHT(g) MEAN	TOTAL DRESSED WEIGHT(g) SD.
310-319	-	-	-	-	-	-	1	318	355	1	318	-	355	-
320-329	-	-	-	1	324	475	-	-	-	1	324	-	475	-
330-339	-	-	-	3	335	500	-	-	-	3	335	4.0	500	80.0
340-349	-	-	-	1	341	485	1	341	460	2	341	0.0	473	17.7
360-369	-	-	-	6	364	670	2	366	605	8	365	2.7	654	81.1
370-379	-	-	-	16	374	733	4	374	685	20	374	2.7	723	61.4
380-389	-	-	-	24	383	773	11	385	718	35	384	2.8	756	67.5
390-399	-	-	-	31	393	844	23	394	783	54	394	2.9	818	64.9
400-409	-	-	-	32	404	873	43	404	843	75	404	2.8	856	56.6
410-419	-	-	-	36	414	944	34	414	896	70	414	2.7	921	72.0
420-429	-	-	-	25	423	1012	31	424	955	56	424	2.6	980	86.6
430-439	-	-	-	8	433	1085	19	432	1026	27	433	2.3	1044	109.4
440-449	-	-	-	9	444	1096	22	443	1058	31	443	2.4	1069	84.4
450-459	-	-	-	7	455	1261	8	453	1117	15	454	2.7	1184	124.1
460-469	-	-	-	4	464	1259	5	464	1346	9	464	2.6	1307	67.3
470-479	-	-	-	3	475	1487	2	472	1343	5	473	3.6	1429	151.0
480-489	-	-	-	1	483	1515	-	-	-	1	483	-	1515	-
490-499	-	-	-	-	-	-	2	494	1405	2	494	4.2	1405	49.5
500-509	-	-	-	2	505	1945	2	501	1598	4	503	3.6	1771	275.1
510-519	-	-	-	1	517	1995	-	-	-	1	517	-	1995	-
TOTAL	-			210			210			420				
MEAN		-	-		407	926		417	924		412	27.9	925	201.9